

Exons 97..498, 98..499, 99..500

Seq. No.	29145	Seq. ID	OJ000250_30.0223.C46
Gene No.	60162	Strand	
Start	97	End	500
Name	OJ000250_30.0223.C46.o1.ts	Method	TBLASTX:Soybean
Start	98	End	500
GI	none	Score	572
Exons	98..499, 99..500		

Seq. No.	29145	Seq. ID	OJ000250_30.0223.C46
Gene No.	60162	Strand	
Start	97	End	500
Name	OJ000250_30.0223.C46.o1.tm	Method	TBLASTX:Maize
Start	129	End	267
GI	none	Score	215
Exons	129..266, 129..266, 130..267		

Seq. No.	29146	Seq. ID	OJ000250_30.0223.C47
Gene No.	60163	Strand	
Start	36	End	256
Name	OJ000250_30.0223.C47.o1.tm	Method	TBLASTX:Maize
Start	36	End	256
GI	none	Score	337
Exons	36..254, 39..248, 41..253, 41..256		

Seq. No.	29146	Seq. ID	OJ000250_30.0223.C47
Gene No.	60164	Strand	
Start	249	End	572
Name	OJ000250_30.0223.C47.o1.tc	Method	TBLASTX:Cress
Start	249	End	572
GI	none	Score	437
Exons	249..572, 251..571		

Seq. No.	29146	Seq. ID	OJ000250_30.0223.C47
Gene No.	60164	Strand	
Start	249	End	572
Name	OJ000250_30.0223.C47.o1.ts	Method	TBLASTX:Soybean
Start	291	End	572
GI	none	Score	390
Exons	291..572, 293..571		

Seq. No.	29147	Seq. ID	OJ000250_30.0223.C48
Gene No.	60165	Strand	+
Start	317	End	550
Name	OJ000250_30.0223.C48.o1.tc	Method	TBLASTX:Cress
Start	1	End	236
GI	none	Score	53
Exons	1..54, 2..49, 56..172, 57..140, 58..174, 142..228, 151..231, 174..236, 180..230		

Seq. No.	29147	Seq. ID	OJ000250_30.0223.C48
Gene No.	60165	Strand	+
Start	317	End	550
Name	OJ000250_30.0223.C48.o1.gp	Method	AAT/GAP
Start	317	End	550
GI	14384_1.R1084	Score	345

Exons 317..550  
 GI Descrip. '5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'

Seq. No.	29147	Seq. ID	OJ000250_30.0223.C48
Gene No.	60165	Strand	+
Start	317	End	550
Name	OJ000250_30.0223.C48.o1.tw	Method	TBLASTX:Wheat
Start	343	End	550
GI	none	Score	67
Exons	343..441, 359..457, 360..458, 441..548, 442..549, 446..550		

Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o4.ts	Method	TBLASTX:Soybean
Start	33	End	294
GI	none	Score	81
Exons	33..194, 34..216, 35..202, 199..294, 200..292		

Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o3.ts	Method	TBLASTX:Soybean
Start	753	End	967
GI	none	Score	128
Exons	753..878, 753..878, 755..886, 764..886, 878..967, 879..962		

Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o2.ts	Method	TBLASTX:Soybean
Start	968	End	1206
GI	none	Score	250
Exons	968..1192, 969..1193, 969..1199, 982..1206, 983..1195		

Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o1.tc	Method	TBLASTX:Cress
Start	1104	End	1837
GI	none	Score	137
Exons	1104..1232, 1104..1223, 1106..1279, 1297..1497, 1300..1491, 1335..1532, 1484..1702, 1489..1827, 1491..1829, 1491..1835, 1757..1837		

Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o1.ts	Method	TBLASTX:Soybean
Start	1292	End	2604
GI	none	Score	306
Exons	1292..1714, 1294..1836, 1294..1914, 1317..1928, 1335..1934, 1870..1929, 2009..2044, 2045..2080, 2096..2134, 2292..2375, 2298..2372, 2305..2373, 2454..2516, 2467..2535, 2469..2501, 2567..2599, 2569..2604		



Seq. No.	29148	Seq. ID	OJ000250_30.0223.C49
Gene No.	60166	Strand	-
Start	2228	End	2604
Name	OJ000250_30.0223.C49.o1.gp	Method	AAT/GAP
Start	2228	End	2430
GI	6012822	Score	337
Exons	2228..2430		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-52 Rice complete chloroplast genome		

Seq. No.	29149	Seq. ID	OJ000250_30.0223.C50
Gene No.	60167	Strand	
Start	1	End	1456
Name	OJ000250_30.0223.C50.o1.tc	Method	TBLASTX:Cress
Start	1	End	612
GI	none	Score	461
Exons	1..387, 6..335, 389..490, 391..612, 391..612		

Seq. No.	29149	Seq. ID	OJ000250_30.0223.C50
Gene No.	60167	Strand	
Start	1	End	1456
Name	OJ000250_30.0223.C50.o1.ts	Method	TBLASTX:Soybean
Start	4	End	1456
GI	none	Score	405
Exons	4..387, 5..34, 6..335, 77..382, 383..490, 393..488, 394..1455, 422..1456		

Seq. No.	29149	Seq. ID	OJ000250_30.0223.C50
Gene No.	60167	Strand	
Start	1	End	1456
Name	OJ000250_30.0223.C50.o2.tc	Method	TBLASTX:Cress
Start	724	End	1179
GI	none	Score	138
Exons	724..879, 727..1104, 731..1105, 1115..1177, 1117..1179		

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60168	Strand	+
Start	205	End	1052
Name	OJ000250_30.0223.C51.o1.tm	Method	TBLASTX:Maize
Start	36	End	568
GI	none	Score	208
Exons	36..176, 38..181, 38..175, 76..180, 184..210, 188..211, 212..250, 213..254, 214..252, 243..533, 243..533, 244..534, 244..537, 248..535, 311..538, 537..563, 537..563, 539..568, 539..565		

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60168	Strand	+
Start	205	End	1052
Name	OJ000250_30.0223.C51.o1.gp	Method	AAT/GAP
Start	205	End	375
GI	LIB3431-017-P1-K1-H4	Score	260
Exons	205..375		
GI Descrip.	'1173189/sp P12340 RR12_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL PROTEIN S12 >gi_2119091_pir_S58629 ribosomal protein S12 - maize chloroplast >gi_342619 (M17841) ribosomal protein S12 [Zea mays] >gi_1216141_emb_CAA60309_ (X86563) ribosomal protein S12 [Zea mays]'		

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60168	Strand	+
Start	205	End	1052
Name	OJ000250_30.0223.C51.o1.ts	Method	TBLASTX:Soybean
Start	215	End	956
GI	none	Score	137
Exons	215..241, 242..418, 244..420, 476..529, 477..536, 619..690, 720..773, 727..795, 730..774, 841..867, 898..948, 906..956		261..395, 262..423, 471..536, 631..723, 632..724, 665..730, 785..829, 791..868, 831..872,

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60168	Strand	+
Start	205	End	1052
Name	OJ000250_30.0223.C51.o2.tc	Method	TBLASTX:Cress
Start	475	End	1052
GI	none	Score	59
Exons	475..519, 548..592, 548..589, 736..774, 736..774, 779..865, 902..961, 951..986, 954..983, 1023..1052		628..690, 629..772, 675..773, 789..863, 790..864, 901..948,

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60169	Strand	
Start	1651	End	2423
Name	OJ000250_30.0223.C51.o1.tc	Method	TBLASTX:Cress
Start	1651	End	2423
GI	none	Score	252
Exons	1651..1749, 1794..1955, 1807..1971, 2052..2099, 2366..2422, 2367..2423		1807..1971, 1983..2075,

Seq. No.	29150	Seq. ID	OJ000250_30.0223.C51
Gene No.	60169	Strand	
Start	1651	End	2423
Name	OJ000250_30.0223.C51.o2.ts	Method	TBLASTX:Soybean
Start	1794	End	2423
GI	none	Score	257
Exons	1794..1955, 1798..1971, 1802..1972, 2033..2104, 2040..2102, 2052..2096, 2354..2422, 2367..2423		1807..1971, 1983..2045,

Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60170	Strand	-
Start	103	End	728
Name	OJ000250_30.0223.C52.o1.gp	Method	AAT/GAP
Start	103	End	625
GI	uC-osflm202104g03b1	Score	1026
Exons	103..625		
GI Descrip.	'131211/sp P19443 PSAJ_MAIZE 6.0e-10 PHOTOSYSTEM I REACTION CENTRE SUBUNIT IX (PSI-J) >gi_1363533_pir_S58571 photosystem I protein psaJ - maize chloroplast >gi_552734 (J04502) ORF42 [Zea mays] >gi_902241_emb_CAA60305_ (X86563) psaJ [Zea mays]'		

Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60170	Strand	-
Start	103	End	728
Name	OJ000250_30.0223.C52.o1.tm	Method	TBLASTX:Maize
Start	328	End	643

GI	none	Score	455
Exons	328..642, 328..642, 335..643		
Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60170	Strand	-
Start	103	End	728
Name	OJ000250_30.0223.C52.o1.tw	Method	TBLASTX:Wheat
Start	340	End	728
GI	none	Score	359
Exons	340..615, 355..621, 377..625, 648..686, 650..727, 669..728		

Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60170	Strand	-
Start	103	End	728
Name	OJ000250_30.0223.C52.o1.tc	Method	TBLASTX:Cress
Start	406	End	566
GI	none	Score	219
Exons	406..564, 415..564, 462..566		

Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60170	Strand	-
Start	103	End	728
Name	OJ000250_30.0223.C52.o1.ts	Method	TBLASTX:Soybean
Start	415	End	569
GI	none	Score	217
Exons	415..567, 415..567, 462..569		

Seq. No.	29151	Seq. ID	OJ000250_30.0223.C52
Gene No.	60171	Strand	-
Start	1190	End	1349
Name	OJ000250_30.0223.C52.o2.tm	Method	TBLASTX:Maize
Start	1190	End	1349
GI	none	Score	259
Exons	1190..1348, 1196..1348, 1197..1349		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60172	Strand	+
Start	5300	End	5837
Name	OJ000250_30.0223.C53.o2.gp	Method	AAT/GAP
Start	5300	End	5837
GI	2653_1.R1084	Score	1052
Exons	5300..5837		
GI Descrip.	'11998/emb CAA33959  5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf__1603356AR ORF 85A [Oryza sativa]'		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60173	Strand	-
Start	3989	End	4430
Name	OJ000250_30.0223.C53.o1.gp	Method	AAT/GAP
Start	3989	End	4430
GI	uC-osflM202092b08b1	Score	831
Exons	3989..4430		
GI Descrip.	'118048/sp P07888 CYF_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR >gi_65615_pir_CFRZ plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome f precursor - rice chloroplast >gi_12000_emb_CAA33961_ (X15901) cytochrome f [Oryza sativa] >gi_226621_prf__1603356AU cytochrome f [Oryza sativa]'		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o1.tm	Method	TBLASTX:Maize
Start	2	End	733
GI	none	Score	336
Exons	2..202, 3..203, 6..206, 163..270, 201..269, 257..286, 267..320, 268..294, 289..321, 336..506, 338..508, 502..588, 504..587, 557..706, 561..701, 575..733, 583..708		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o3.ts	Method	TBLASTX:Soybean
Start	49	End	264
GI	none	Score	219
Exons	49..204, 50..205, 199..264		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o5.tc	Method	TBLASTX:Cress
Start	64	End	406
GI	none	Score	172
Exons	64..189, 68..178, 199..264, 199..261, 320..406, 339..404		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o2.tw	Method	TBLASTX:Wheat
Start	299	End	895
GI	none	Score	168
Exons	299..475, 300..470, 463..576, 463..588, 464..589, 465..584, 572..622, 574..651, 574..621, 576..623, 625..708, 626..703, 662..727, 701..742, 766..891, 766..888, 767..895, 795..890		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o7.tm	Method	TBLASTX:Maize
Start	1075	End	1483
GI	none	Score	80
Exons	1075..1152, 1088..1150, 1182..1259, 1187..1258, 1263..1325, 1266..1328, 1268..1333, 1305..1346, 1340..1432, 1340..1399, 1344..1400, 1405..1461, 1407..1460, 1412..1465, 1412..1483		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o5.tw	Method	TBLASTX:Wheat
Start	1257	End	1658
GI	none	Score	148
Exons	1257..1382, 1260..1403, 1282..1428, 1422..1637, 1422..1625, 1584..1658, 1607..1657, 1608..1658		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
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Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o3.tc	Method	TBLASTX:Cress
Start	1513	End	2091
GI	none	Score	59
Exons	1513..1584, 1518..1580, 1587..1616, 1588..1620, 1615..1896, 1620..1901, 1624..1896, 1632..1898, 1902..2030, 1903..2031, 1904..2032, 2033..2089, 2034..2090, 2034..2090, 2038..2091		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o8.tm	Method	TBLASTX:Maize
Start	1519	End	1671
GI	none	Score	79
Exons	1519..1560, 1519..1563, 1563..1616, 1563..1616, 1564..1617, 1564..1623, 1602..1670, 1610..1669, 1618..1671, 1624..1671		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o1.tw	Method	TBLASTX:Wheat
Start	1736	End	2178
GI	none	Score	640
Exons	1736..2176, 1738..2178, 1752..2177		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o4.tc	Method	TBLASTX:Cress
Start	2130	End	2467
GI	none	Score	68
Exons	2130..2183, 2132..2182, 2222..2464, 2222..2467		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o5.tm	Method	TBLASTX:Maize
Start	2130	End	2413
GI	none	Score	110
Exons	2130..2198, 2131..2196, 2132..2197, 2143..2199, 2159..2413, 2198..2413		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o4.tw	Method	TBLASTX:Wheat
Start	3285	End	3612
GI	none	Score	473
Exons	3285..3605, 3285..3605, 3286..3606, 3349..3612		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o1.ts	Method	TBLASTX:Soybean
Start	3390	End	4926
GI	none	Score	1230

Exons 3390..4373, 3391..4374, 4171..4380, 4601..4906, 4609..4926

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o1.tc	Method	TBLASTX:Cress
Start	3428	End	4696
GI	none	Score	70
Exons	3428..3481, 3431..3487, 3432..3488, 3432..3488, 3585..4373, 3594..4394, 4171..4380, 4616..4696, 4624..4695		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o6.tw	Method	TBLASTX:Wheat
Start	3731	End	3847
GI	none	Score	187
Exons	3731..3847, 3731..3844, 3732..3845		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o6.tm	Method	TBLASTX:Maize
Start	3905	End	4072
GI	none	Score	284
Exons	3905..4072, 3906..4070		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o3.tm	Method	TBLASTX:Maize
Start	4073	End	4553
GI	none	Score	640
Exons	4073..4513, 4074..4517, 4171..4518, 4507..4551, 4515..4553		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o3.tw	Method	TBLASTX:Wheat
Start	4179	End	4605
GI	none	Score	195
Exons	4179..4304, 4180..4299, 4182..4301, 4306..4407, 4307..4519, 4308..4499, 4337..4501, 4434..4559, 4455..4574, 4503..4574, 4504..4575, 4543..4575, 4565..4603, 4569..4604, 4579..4605		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o6.tc	Method	TBLASTX:Cress
Start	4697	End	4914
GI	none	Score	155
Exons	4697..4912, 4699..4914		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o2.ts	Method	TBLASTX:Soybean

Start	4930	End	7421
GI	none	Score	268
Exons	4930..5304, 4931..5278, 4934..5308, 5194..5298, 5325..5387, 5330..5389, 5333..5401, 5697..5774, 5715..5774, 5796..5852, 5801..5863, 5801..5860, 5883..6098, 5886..6098, 5929..6132, 6083..6124, 6120..6281, 6136..6276, 6603..6740, 6641..6727, 6642..6728, 6649..6738, 7200..7421, 7243..7362		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o2.tc	Method	TBLASTX:Cress
Start	4934	End	6275
GI	none	Score	228
Exons	4934..5311, 4936..5307, 4953..5312, 5312..5386, 5714..5803, 5715..5798, 5782..5850, 5784..6272, 5790..6275		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o2.tm	Method	TBLASTX:Maize
Start	5520	End	6117
GI	none	Score	39
Exons	5520..5552, 5528..5548, 5543..5590, 5544..5591, 5545..5589, 5587..5610, 5588..5611, 5697..6101, 5697..6098, 5699..6106, 6084..6116, 6085..6117		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o3.gp	Method	AAT/GAP
Start	5841	End	6464
GI	7528.2.R1084	Score	1143
Exons	5841..6464		
GI Descrip.	'140291/sp P12206 YCF4_ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi_82541_pir_S05116 hypothetical protein 185 - rice chloroplast >gi_11997_emb_CAA33958_(X15901) ORF185 [Oryza sativa] >gi_226618_prf_1603356AQ ORF 185 [Oryza sativa]'		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60174	Strand	-
Start	5841	End	7421
Name	OJ000250_30.0223.C53.o4.tm	Method	TBLASTX:Maize
Start	6356	End	6786
GI	none	Score	95
Exons	6356..6445, 6370..6441, 6371..6448, 6372..6470, 6418..6504, 6438..6509, 6438..6506, 6490..6603, 6506..6604, 6607..6780, 6607..6786		

Seq. No.	29152	Seq. ID	OJ000250_30.0223.C53
Gene No.	60175	Strand	-
Start	7425	End	8170
Name	OJ000250_30.0223.C53.o9.tm	Method	TBLASTX:Maize
Start	7425	End	8170
GI	none	Score	153
Exons	7425..7487, 8019..8111, 8021..8125, 8039..8125, 8111..8143, 8111..8143, 8118..8168, 8138..8170		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60176	Strand	+
Start	1679	End	2195
Name	OJ000250_30.0223.C54.o3.gp	Method	AAT/GAP
Start	1679	End	2195
GI	uC-osflM202083h12b1	Score	968
Exons	1679..2195		
GI Descrip.	'552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60177	Strand	-
Start	1	End	389
Name	OJ000250_30.0223.C54.o1.gp	Method	AAT/GAP
Start	1	End	389
GI	14384_1.R1084	Score	733
Exons	1..389		
GI Descrip.	'5881726/dbj BAA84417.1  3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60178	Strand	-
Start	486	End	1531
Name	OJ000250_30.0223.C54.o2.tw	Method	TBLASTX:Wheat
Start	1	End	476
GI	none	Score	72
Exons	1..42, 3..41, 43..471, 44..475, 45..476, 45..476		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60178	Strand	-
Start	486	End	1531
Name	OJ000250_30.0223.C54.o3.tc	Method	TBLASTX:Cress
Start	93	End	240
GI	none	Score	198
Exons	93..239, 104..238, 118..240		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60178	Strand	-
Start	486	End	1531
Name	OJ000250_30.0223.C54.o5.tm	Method	TBLASTX:Maize
Start	183	End	472
GI	none	Score	223
Exons	183..452, 184..471, 188..472, 189..467		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60178	Strand	-
Start	486	End	1531
Name	OJ000250_30.0223.C54.o2.tm	Method	TBLASTX:Maize
Start	475	End	1221
GI	none	Score	54
Exons	475..525, 475..522, 481..1209, 523..1221		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60178	Strand	-
Start	486	End	1531
Name	OJ000250_30.0223.C54.o2.gp	Method	AAT/GAP
Start	486	End	1215



GI 24824 1.R1084 Score 1363  
 Exons 486..1215  
 GI Descrip. '476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa]  
 >gi\_1583954\_prf\_2121489A  
 RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60178 Strand -  
 Start 486 End 1531  
 Name OJ000250\_30.0223.C54.o2.ts Method TBLASTX:Soybean  
 Start 545 End 1248  
 GI none Score 556  
 Exons 545..1060, 545..1225, 547..1248, 562..1248

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60178 Strand -  
 Start 486 End 1531  
 Name OJ000250\_30.0223.C54.o6.tw Method TBLASTX:Wheat  
 Start 620 End 802  
 GI none Score 255  
 Exons 620..802, 624..800

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60178 Strand -  
 Start 486 End 1531  
 Name OJ000250\_30.0223.C54.o2.tc Method TBLASTX:Cress  
 Start 763 End 1239  
 GI none Score 549  
 Exons 763..1200, 764..985, 782..1204, 784..1203, 855..1205, 1207..1239

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60178 Strand -  
 Start 486 End 1531  
 Name OJ000250\_30.0223.C54.o1.tw Method TBLASTX:Wheat  
 Start 803 End 1488  
 GI none Score 265  
 Exons 803..1228, 804..986, 805..1257, 805..1257, 849..1277,  
 1241..1315, 1271..1369, 1278..1340, 1327..1488, 1343..1486,  
 1360..1488

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60178 Strand -  
 Start 486 End 1531  
 Name OJ000250\_30.0223.C54.o3.tm Method TBLASTX:Maize  
 Start 1222 End 1531  
 GI none Score 130  
 Exons 1222..1347, 1224..1349, 1314..1418, 1322..1432, 1324..1419,  
 1344..1421, 1367..1423, 1408..1527, 1409..1531

Seq. No. 29153 Seq. ID OJ000250\_30.0223.C54  
 Gene No. 60179 Strand -  
 Start 1656 End 3567  
 Name OJ000250\_30.0223.C54.o4.tw Method TBLASTX:Wheat  
 Start 1656 End 2088  
 GI none Score 308  
 Exons 1656..1865, 1656..1868, 1657..1878, 1690..1869, 1856..1942,  
 1867..1941, 1877..1987, 1939..2088, 1949..2086, 1993..2088

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o6.tm	Method	TBLASTX:Maize
Start	1673	End	1863
GI	none	Score	68
Exons	1673..1729, 1674..1727, 1677..1733, 1690..1728, 1701..1862, 1724..1861, 1726..1863, 1726..1863		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o4.tm	Method	TBLASTX:Maize
Start	1864	End	2117
GI	none	Score	35
Exons	1864..1881, 1886..1915, 1886..1915, 1906..2115, 1938..2117		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o1.tc	Method	TBLASTX:Cress
Start	1958	End	3567
GI	none	Score	1992
Exons	1958..2536, 1959..3242, 2205..2996, 2284..3216, 2621..3241, 3082..3243, 3299..3565, 3299..3565, 3445..3567		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o1.ts	Method	TBLASTX:Soybean
Start	2022	End	3419
GI	none	Score	583
Exons	2022..2066, 2138..2536, 2151..2627, 2356..2610, 2403..2645, 2646..3242, 2646..3002, 2657..3241, 3299..3412, 3300..3419		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o1.tm	Method	TBLASTX:Maize
Start	2117	End	3427
GI	none	Score	591
Exons	2117..2536, 2136..2627, 2403..2645, 2646..3242, 2646..3002, 2657..3241, 3042..3338, 3299..3427, 3300..3422		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o3.tw	Method	TBLASTX:Wheat
Start	2232	End	2927
GI	none	Score	321
Exons	2232..2495, 2240..2509, 2520..2558, 2565..2627, 2646..2927, 2652..2921, 2657..2926		

Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567

Name	OJ000250_30.0223.C54.o5.tw	Method	TBLASTX:Wheat
Start	3015	End	3395
GI	none	Score	269
Exons	3015..3242, 3038..3241, 3299..3394, 3300..3395		
Seq. No.	29153	Seq. ID	OJ000250_30.0223.C54
Gene No.	60179	Strand	
Start	1656	End	3567
Name	OJ000250_30.0223.C54.o3.ts	Method	TBLASTX:Soybean
Start	3419	End	3565
GI	none	Score	196
Exons	3419..3565, 3422..3565		
Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60180	Strand	+
Start	879	End	968
Name	OJ000250_30.0223.C55.o1.tm	Method	TBLASTX:Maize
Start	1	End	680
GI	none	Score	1072
Exons	1..222, 2..679, 3..680, 3..656		
Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60180	Strand	+
Start	879	End	968
Name	OJ000250_30.0223.C55.o1.ts	Method	TBLASTX:Soybean
Start	1	End	765
GI	none	Score	194
Exons	1..129, 2..208, 132..173, 134..280, 167..265, 251..349, 252..449, 267..476, 382..711, 417..656, 421..765, 422..712		
Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60180	Strand	+
Start	879	End	968
Name	OJ000250_30.0223.C55.o1.tc	Method	TBLASTX:Cress
Start	201	End	851
GI	none	Score	358
Exons	201..518, 281..349, 282..530, 287..526, 540..656, 541..711, 544..711, 546..713, 593..712, 769..798, 770..799, 770..799, 773..850, 793..849, 800..850, 801..851		
Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60180	Strand	+
Start	879	End	968
Name	OJ000250_30.0223.C55.o1.tw	Method	TBLASTX:Wheat
Start	233	End	540
GI	none	Score	514
Exons	233..349, 234..539, 234..539, 235..540		
Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60180	Strand	+
Start	879	End	968
Name	OJ000250_30.0223.C55.o1.gp	Method	AAT/GAP
Start	879	End	968
GI	3073_1.R1084	Score	159
Exons	879..968		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice		

chloroplast >gi\_12025\_emb\_CAA33934\_ (X15901) ribosomal protein  
S3 [Oryza sativa] >gi\_226646\_prf\_1603356BW ribosomal protein S3  
[Oryza sativa]'

Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60181	Strand	
Start	964	End	1187
Name	OJ000250_30.0223.C55.o3.tm	Method	TBLASTX:Maize
Start	964	End	1187
GI	none	Score	234
Exons	964..1074, 968..1186, 980..1147, 1050..1187		

Seq. No.	29154	Seq. ID	OJ000250_30.0223.C55
Gene No.	60182	Strand	
Start	1355	End	1659
Name	OJ000250_30.0223.C55.o2.tm	Method	TBLASTX:Maize
Start	1355	End	1659
GI	none	Score	51
Exons	1355..1420, 1405..1659, 1452..1658		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60183	Strand	+
Start	1	End	146
Name	OJ000250_30.0223.C57.o1.gp	Method	AAT/GAP
Start	1	End	146
GI	306_9.R1084	Score	250
Exons	1..146		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60184	Strand	+
Start	537	End	995
Name	OJ000250_30.0223.C57.o2.gp	Method	AAT/GAP
Start	537	End	995
GI	45273_1.R1084	Score	850
Exons	537..995		
GI Descrip.	'1022811 4.0e-21 (U37703) ORF 62 [Hordeum vulgare]'		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60185	Strand	-
Start	877	End	1180
Name	OJ000250_30.0223.C57.o1.tm	Method	TBLASTX:Maize
Start	572	End	1180
GI	none	Score	50
Exons	572..616, 573..611, 627..899, 629..901, 629..898, 630..935, 631..945, 883..981, 900..986, 902..1000, 902..985, 903..986, 1089..1127, 1089..1127, 1098..1178, 1139..1180, 1139..1180		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60185	Strand	-
Start	877	End	1180
Name	OJ000250_30.0223.C57.o1.tc	Method	TBLASTX:Cress
Start	657	End	1171
GI	none	Score	184
Exons	657..881, 658..873, 662..886, 668..880, 669..881, 931..978, 949..978, 1039..1107, 1044..1076, 1148..1171		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60185	Strand	-
Start	877	End	1180
Name	OJ000250_30.0223.C57.o1.ts	Method	TBLASTX:Soybean
Start	657	End	980
GI	none	Score	294
Exons	657..881, 665..889, 669..881, 933..980		

Seq. No.	29155	Seq. ID	OJ000250_30.0223.C57
Gene No.	60185	Strand	-
Start	877	End	1180
Name	OJ000250_30.0223.C57.o3.gp	Method	AAT/GAP
Start	877	End	1180
GI	5607533	Score	457
Exons	877..1180		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-145 Rice complete chloroplast genome		

Seq. No.	29156	Seq. ID	OJ000250_30.0223.C58
Gene No.	60186	Strand	
Start	2	End	688
Name	OJ000250_30.0223.C58.o1.tc	Method	TBLASTX:Cress
Start	2	End	688
GI	none	Score	118
Exons	2..79, 3..77, 68..103, 80..106, 81..107, 115..198, 117..221, 118..192, 198..314, 200..316, 309..380, 318..371, 323..382, 325..384, 409..510, 410..508, 411..593, 418..594, 609..653, 614..664, 614..688, 661..684		

Seq. No.	29156	Seq. ID	OJ000250_30.0223.C58
Gene No.	60186	Strand	
Start	2	End	688
Name	OJ000250_30.0223.C58.o1.tw	Method	TBLASTX:Wheat
Start	2	End	296
GI	none	Score	65
Exons	2..37, 3..35, 36..185, 39..155, 101..202, 158..202, 159..230, 159..221, 201..296, 219..296		

Seq. No.	29156	Seq. ID	OJ000250_30.0223.C58
Gene No.	60186	Strand	
Start	2	End	688
Name	OJ000250_30.0223.C58.o1.tm	Method	TBLASTX:Maize
Start	248	End	375
GI	none	Score	176
Exons	248..373, 250..375, 252..374, 256..375		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o3.tc	Method	TBLASTX:Cress
Start	2	End	1062
GI	none	Score	53
Exons	2..61, 2..52, 4..63, 6..65, 90..191, 91..189, 92..274, 99..275, 229..276, 290..334, 295..402, 342..458, 347..478, 349..456, 474..536, 475..582, 500..568, 537..605, 538..609, 538..606, 601..681, 602..682, 606..683, 702..773, 730..876, 737..835,		

738..869, 938..967, 943..969, 943..969, 967..1062, 976..1062

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o6.ts	Method	TBLASTX:Soybean
Start	709	End	1822
GI	none	Score	163
Exons	709..849, 710..874, 718..876, 720..875, 937..975, 990..1082, 1007..1063, 1090..1194, 1090..1167, 1201..1227, 1202..1228, 1221..1286, 1223..1288, 1361..1423, 1411..1446, 1412..1453, 1412..1456, 1453..1485, 1454..1489, 1505..1552, 1509..1559, 1511..1606, 1516..1638, 1516..1605, 1615..1821, 1622..1822, 1625..1822		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o1.gp	Method	AAT/GAP
Start	902	End	2871
GI	183_5.R1084	Score	2766
Exons	902..1946, 2487..2871		
GI Descrip.	'133999/sp P05424 RR7_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir_R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942 (X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919 (X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf_1603356CH ribosomal protein S7 [Oryza sativa]'		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o1.tm	Method	TBLASTX:Maize
Start	904	End	2782
GI	none	Score	514
Exons	904..1206, 904..1209, 912..1211, 1204..1263, 1205..1288, 1206..1289, 1335..1436, 1344..1817, 1345..2781, 1351..2763, 2312..2782		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o7.tc	Method	TBLASTX:Cress
Start	1063	End	1284
GI	none	Score	113
Exons	1063..1086, 1081..1224, 1088..1225, 1091..1222, 1092..1223, 1215..1247, 1218..1259, 1249..1284		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o2.tc	Method	TBLASTX:Cress
Start	1344	End	4809
GI	none	Score	63
Exons	1344..1364, 1345..1386, 1351..1392, 1352..1396, 1368..1436, 1378..1452, 1382..1426, 1442..1489, 1453..1527, 1491..1559, 1495..1611, 1496..1612, 1503..1616, 1504..1620, 1570..2091,		

1571..2092, 1589..1615, 1615..2091, 1622..2092, 4753..4809

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o2.tw	Method	TBLASTX:Wheat
Start	1702	End	2112
GI	none	Score	601
Exons	1702..2061, 1705..2046, 2053..2112		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o5.ts	Method	TBLASTX:Soybean
Start	1980	End	2382
GI	none	Score	208
Exons	1980..2132, 1980..2135, 1981..2133, 1982..2161, 2134..2247, 2134..2247, 2259..2381, 2259..2381, 2260..2382		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o6.tc	Method	TBLASTX:Cress
Start	2367	End	2527
GI	none	Score	190
Exons	2367..2507, 2371..2514, 2372..2509, 2372..2527, 2406..2516		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o2.ts	Method	TBLASTX:Soybean
Start	2384	End	3108
GI	none	Score	199
Exons	2384..2509, 2384..2509, 2389..2511, 2502..2810, 2503..2547, 2504..2566, 2563..2763, 2564..2809, 2816..3061, 2821..3060, 2835..3065, 3061..3108, 3064..3105		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o4.tw	Method	TBLASTX:Wheat
Start	2488	End	2707
GI	none	Score	59
Exons	2488..2520, 2489..2521, 2509..2640, 2525..2638, 2597..2707, 2620..2703, 2624..2704		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o4.tc	Method	TBLASTX:Cress
Start	2574	End	3096
GI	none	Score	119
Exons	2574..2681, 2587..2679, 2671..2697, 2675..2809, 2689..2811, 2695..2763, 2697..2810, 2808..3059, 2816..3061, 2833..3060, 2835..3065, 3057..3095, 3061..3096, 3064..3093		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
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Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o3.tm	Method	TBLASTX:Maize
Start	2784	End	3138
GI	none	Score	585
Exons	2784..3137, 2785..3135, 2821..3138		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o4.tm	Method	TBLASTX:Maize
Start	3152	End	3276
GI	none	Score	181
Exons	3152..3271, 3173..3271, 3189..3275, 3190..3276		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o4.ts	Method	TBLASTX:Soybean
Start	3221	End	3673
GI	none	Score	96
Exons	3221..3307, 3221..3307, 3222..3338, 3223..3336, 3291..3368, 3292..3351, 3354..3641, 3355..3669, 3355..3672, 3356..3673		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60187	Strand	+
Start	902	End	4809
Name	OJ000250_30.0223.C59.o7.ts	Method	TBLASTX:Soybean
Start	3674	End	3900
GI	none	Score	372
Exons	3674..3898, 3676..3900, 3676..3900		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60188	Strand	+
Start	5106	End	5880
Name	OJ000250_30.0223.C59.o3.ts	Method	TBLASTX:Soybean
Start	5106	End	5599
GI	none	Score	205
Exons	5106..5228, 5106..5441, 5108..5587, 5108..5599, 5191..5589		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60188	Strand	+
Start	5106	End	5880
Name	OJ000250_30.0223.C59.o3.tw	Method	TBLASTX:Wheat
Start	5394	End	5880
GI	none	Score	271
Exons	5394..5576, 5395..5628, 5396..5635, 5396..5635, 5582..5674, 5624..5674, 5625..5675, 5634..5675, 5660..5728, 5673..5738, 5680..5700, 5686..5763, 5686..5727, 5688..5765, 5690..5770, 5692..5754, 5745..5801, 5745..5801, 5758..5802, 5802..5879, 5803..5880, 5803..5880		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60189	Strand	+
Start	7049	End	7228
Name	OJ000250_30.0223.C59.o9.ts	Method	TBLASTX:Soybean
Start	7049	End	7228



GI	none	Score	162
Exons	7049..7189, 7053..7193, 7199..7228, 7203..7226		
Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60190	Strand	
Start	7176	End	7584
Name	OJ000250_30.0223.C59.o5.tc	Method	TBLASTX:Cress
Start	7176	End	7584
GI	none	Score	111
Exons	7176..7307, 7218..7298, 7225..7305, 7282..7395, 7308..7394, 7309..7395, 7310..7405, 7390..7539, 7392..7538, 7392..7553, 7540..7584, 7545..7580		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o5.tw	Method	TBLASTX:Wheat
Start	7738	End	7965
GI	none	Score	214
Exons	7738..7884, 7738..7899, 7906..7965, 7907..7963		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o1.tc	Method	TBLASTX:Cress
Start	7814	End	9011
GI	none	Score	85
Exons	7814..7900, 7816..7899, 7824..7904, 7905..7979, 7906..8001, 7907..7993, 7913..8011, 7998..8711, 7999..8268, 8000..8275, 8007..8708, 8504..8713, 8717..8836, 8721..8837, 8824..8925, 8837..8929, 8858..8929, 8950..9009, 8951..9010, 8958..9011		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o2.tm	Method	TBLASTX:Maize
Start	7936	End	8713
GI	none	Score	886
Exons	7936..8268, 7938..8468, 7938..8459, 8461..8634, 8462..8527, 8463..8711, 8463..8708, 8504..8713		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o1.tw	Method	TBLASTX:Wheat
Start	7966	End	8343
GI	none	Score	576
Exons	7966..8268, 7967..8341, 7968..8342, 7968..8342, 7993..8343		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o1.ts	Method	TBLASTX:Soybean
Start	8001	End	8713
GI	none	Score	1003
Exons	8001..8711, 8010..8708, 8504..8713		

Seq. No.	29157	Seq. ID	OJ000250_30.0223.C59
Gene No.	60191	Strand	
Start	7738	End	9011
Name	OJ000250_30.0223.C59.o8.ts	Method	TBLASTX:Soybean
Start	8713	End	9010
GI	none	Score	290
Exons	8713..8925, 8714..8929, 8714..8929, 8950..8985, 8951..8986, 8951..8998, 8977..9009, 8978..9010		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60192	Strand	+
Start	120	End	3317
Name	OJ000250_32.0225.C1.o1.gs	Method	GENSCAN
Start	120	End	3317
GI	none	Score	.5
Exons	120..1441, 2933..3317		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60193	Strand	+
Start	4989	End	5246
Name	OJ000250_32.0225.C1.o2.gs	Method	GENSCAN
Start	4989	End	5246
GI	none	Score	.85
Exons	4989..5068, 5078..5246		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60194	Strand	-
Start	3341	End	3649
Name	OJ000250_32.0225.C1.o1.gp	Method	AAT/GAP
Start	3341	End	3649
GI	72524_1.R1084	Score	423
Exons	3341..3649		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o2.tw	Method	TBLASTX:Wheat
Start	375	End	710
GI	none	Score	165
Exons	375..617, 591..710		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o1.tm	Method	TBLASTX:Maize
Start	453	End	1241
GI	none	Score	270
Exons	453..890, 629..733, 806..889, 936..1241		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o1.ts	Method	TBLASTX:Soybean
Start	1020	End	1579
GI	none	Score	57

Exons 1020..1073, 1146..1241, 1257..1367, 1442..1579

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o2.tm	Method	TBLASTX:Maize
Start	1340	End	1762
GI	none	Score	82
Exons	1340..1465, 1341..1403, 1406..1588, 1418..1570, 1423..1584, 1577..1648, 1645..1761, 1655..1762		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o1.tw	Method	TBLASTX:Wheat
Start	1411	End	1732
GI	none	Score	302
Exons	1411..1707, 1421..1705, 1709..1732		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o3.tm	Method	TBLASTX:Maize
Start	1925	End	2323
GI	none	Score	70
Exons	1925..2005, 1993..2103, 1994..2323, 2003..2200		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o3.gs	Method	GENSCAN
Start	5354	End	8813
GI	none	Score	.74
Exons	5354..5670, 6691..6779, 8053..8166, 8198..8466, 8696..8813		

Seq. No.	29158	Seq. ID	OJ000250_32.0225.C1
Gene No.	60195	Strand	-
Start	5354	End	8813
Name	OJ000250_32.0225.C1.o3.np	Method	AAT/NAP
Start	7605	End	8501
GI	5852178	Score	340
Exons	7605..7699, 8064..8166, 8198..8501		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	29159	Seq. ID	OJ000250_32.0225.C2
Gene No.	60196	Strand	+
Start	983	End	1625
Name	OJ000250_32.0225.C2.o1.gs	Method	GENSCAN
Start	983	End	1625
GI	none	Score	.6
Exons	983..1070, 1087..1625		

Seq. No.	29159	Seq. ID	OJ000250_32.0225.C2
Gene No.	60197	Strand	-
Start	627	End	6396
Name	OJ000250_32.0225.C2.o1.np	Method	AAT/NAP
Start	627	End	5385

GI 5091513 Score 1313  
Exons 627..770, 856..929, 1064..1744, 2318..3250, 4593..4765, 5352..5385

GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No. 29159 Seq. ID OJ000250\_32.0225.C2  
Gene No. 60197 Strand -  
Start 627 End 6396  
Name OJ000250\_32.0225.C2.o2.gs Method GENSCAN  
Start 2671 End 5968  
GI none Score .51  
Exons 2671..2801, 2825..3061, 3106..3301, 3998..4057, 4414..4696, 5886..5968

Seq. No. 29159 Seq. ID OJ000250\_32.0225.C2  
Gene No. 60197 Strand -  
Start 627 End 6396  
Name OJ000250\_32.0225.C2.o2.np Method AAT/NAP  
Start 3185 End 6396  
GI 6063557 Score 70  
Exons 3185..3250, 5638..5810, 6355..6396  
GI Descrip. (AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]

Seq. No. 29159 Seq. ID OJ000250\_32.0225.C2  
Gene No. 60197 Strand -  
Start 627 End 6396  
Name OJ000250\_32.0225.C2.o1.gp Method AAT/GAP  
Start 4136 End 5019  
GI 72524\_1.R1084 Score 1571  
Exons 4136..5019  
GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60198 Strand +  
Start 1 End 5485  
Name OJ000250\_32.0225.C3.o1.np Method AAT/NAP  
Start 1 End 3192  
GI 6911845 Score 474  
Exons 1..322, 2691..3192  
GI Descrip. (AL138649) sulfotransferase-like protein [Arabidopsis thaliana]

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60198 Strand +  
Start 1 End 5485  
Name OJ000250\_32.0225.C3.o1.gs Method GENSCAN  
Start 99 End 2055  
GI none Score .87  
Exons 99..322, 534..671, 1782..1828, 1946..2055

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60198 Strand +  
Start 1 End 5485  
Name OJ000250\_32.0225.C3.o2.gs Method GENSCAN  
Start 2677 End 5485  
GI none Score .74  
Exons 2677..3176, 4119..4179, 5354..5485

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60199	Strand	+
Start	12595	End	16339
Name	OJ000250_32.0225.C3.o5.gs	Method	GENSCAN
Start	12595	End	16339
GI	none	Score	.43
Exons	12595..12676, 13005..13144, 13286..13429, 13525..13621, 13706..14023, 14107..14916, 15193..15491, 15538..15556, 15695..15841, 16104..16339		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60200	Strand	-
Start	5966	End	7785
Name	OJ000250_32.0225.C3.o2.np	Method	AAT/NAP
Start	5951	End	7778
GI	3668115	Score	1032
Exons	5951..6670, 6779..6933, 7620..7778		
GI Descrip.	(Y15069) cinnamoyl-CoA reductase [Zea mays]		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60200	Strand	-
Start	5966	End	7785
Name	OJ000250_32.0225.C3.o3.gs	Method	GENSCAN
Start	5966	End	7785
GI	none	Score	.94
Exons	5966..6670, 6779..6936, 7620..7785		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o6.tm	Method	TBLASTX:Maize
Start	14	End	167
GI	none	Score	184
Exons	14..166, 15..167		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o5.tm	Method	TBLASTX:Maize
Start	2683	End	3008
GI	none	Score	52
Exons	2683..2754, 2727..3008, 2752..3006		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o1.tc	Method	TBLASTX:Cress
Start	2749	End	3183
GI	none	Score	230
Exons	2749..3039, 2787..3038, 3067..3183, 3072..3182		

Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o1.tm	Method	TBLASTX:Maize
Start	5984	End	7723

GI none Score 183  
Exons 5984..6535, 5985..6203, 6309..6527, 6557..6583, 6626..6670, 6750..6827, 6779..6925, 7621..7722, 7622..7723

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o1.ts Method TBLASTX:Soybean  
Start 5993 End 7720  
GI none Score 59  
Exons 5993..6535, 6132..6194, 6309..6521, 6557..6583, 6579..6671, 6626..6670, 6779..6934, 7621..7719, 7622..7720

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o2.tw Method TBLASTX:Wheat  
Start 5999 End 6358  
GI none Score 151  
Exons 5999..6208, 6003..6203, 6200..6358

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o2.tc Method TBLASTX:Cress  
Start 6380 End 7722  
GI none Score 73  
Exons 6380..6535, 6557..6586, 6626..6670, 6750..6827, 6779..6934, 7621..7722, 7622..7720

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o3.ts Method TBLASTX:Soybean  
Start 16868 End 17121  
GI none Score 151  
Exons 16868..17119, 16876..17121, 16954..17121

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o3.np Method AAT/NAP  
Start 16882 End 20042  
GI 4544372 Score 1210  
Exons 16882..18507, 18613..18955, 19016..20042  
GI Descrip. (AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3  
Gene No. 60201 Strand -  
Start 16882 End 20042  
Name OJ000250\_32.0225.C3.o3.tw Method TBLASTX:Wheat  
Start 16897 End 17304  
GI none Score 76  
Exons 16897..17304, 16931..17074

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3

Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o5.tw  
 Start 17341  
 GI none  
 Exons 17341..17706, 17636..17707

Strand -  
 End 20042  
 Method TBLASTX:Wheat  
 End 17707  
 Score 57

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o4.ts  
 Start 17464  
 GI none  
 Exons 17464..17862, 17581..17604, 17642..17758

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Soybean  
 End 17862  
 Score 36

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o4.tm  
 Start 17695  
 GI none  
 Exons 17695..18024

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Maize  
 End 18024  
 Score 222

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o6.ts  
 Start 18429  
 GI none  
 Exons 18429..18563, 18445..18552, 18585..18722, 18595..18720

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Soybean  
 End 18722  
 Score 59

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o2.ts  
 Start 18873  
 GI none  
 Exons 18873..19061, 18886..19017, 19062..19343, 19210..19305

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Soybean  
 End 19343  
 Score 82

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o4.tw  
 Start 18960  
 GI none  
 Exons 18960..19061, 19023..19358, 19078..19341

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Wheat  
 End 19358  
 Score 74

Seq. No. 29160  
 Gene No. 60201  
 Start 16882  
 Name OJ000250\_32.0225.C3.o2.tm  
 Start 19029  
 GI none  
 Exons 19029..19490, 19030..19155, 19094..19174, 19210..19341, 19227..19490

Seq. ID OJ000250\_32.0225.C3  
 Strand -  
 End 20042  
 Method TBLASTX:Maize  
 End 19490  
 Score 56

Seq. No. 29160 Seq. ID OJ000250\_32.0225.C3

Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o1.tw	Method	TBLASTX:Wheat
Start	19359	End	19763
GI	none	Score	227
Exons	19359..19703, 19359..19712, 19402..19704, 19707..19763, 19717..19758		
Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o3.tm	Method	TBLASTX:Maize
Start	19491	End	19709
GI	none	Score	208
Exons	19491..19709, 19495..19704, 19509..19709		
Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60201	Strand	-
Start	16882	End	20042
Name	OJ000250_32.0225.C3.o5.ts	Method	TBLASTX:Soybean
Start	19560	End	19925
GI	none	Score	134
Exons	19560..19694, 19701..19925		
Seq. No.	29160	Seq. ID	OJ000250_32.0225.C3
Gene No.	60202	Strand	-
Start	20335	End	20673
Name	OJ000250_32.0225.C3.o7.ts	Method	TBLASTX:Soybean
Start	20335	End	20673
GI	none	Score	207
Exons	20335..20673		
Seq. No.	29161	Seq. ID	OJ000250_32.0225.C4
Gene No.	60203	Strand	+
Start	2171	End	7932
Name	OJ000250_32.0225.C4.o1.np	Method	AAT/NAP
Start	2171	End	7929
GI	6498441	Score	1340
Exons	2171..2196, 6118..6203, 6249..7554, 7648..7929		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	29161	Seq. ID	OJ000250_32.0225.C4
Gene No.	60203	Strand	+
Start	2171	End	7932
Name	OJ000250_32.0225.C4.o2.gs	Method	GENSCAN
Start	4019	End	7932
GI	none	Score	.42
Exons	4019..4334, 5008..5622, 5713..6094, 6274..6429, 6727..6925, 7121..7449, 7461..7932		
Seq. No.	29161	Seq. ID	OJ000250_32.0225.C4
Gene No.	60204	Strand	+
Start	18175	End	23357
Name	OJ000250_32.0225.C4.o5.gs	Method	GENSCAN
Start	18175	End	22042



GI none Score .61  
Exons 18175..18279, 18384..18449, 19013..19310, 19797..19861,  
20593..20727, 21893..22042

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4  
Gene No. 60204 Strand +  
Start 18175 End 23357  
Name OJ000250\_32.0225.C4.o5.np Method AAT/NAP  
Start 20412 End 23357  
GI 6751696 Score 98  
Exons 20412..20484, 22711..23019, 23121..23357  
GI Descrip. (AC018908) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4  
Gene No. 60205 Strand -  
Start 745 End 3537  
Name OJ000250\_32.0225.C4.o1.gs Method GENSCAN  
Start 745 End 3537  
GI none Score .51  
Exons 745..944, 1076..1776, 1851..1963, 2451..2484, 3011..3137,  
3453..3537

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4  
Gene No. 60206 Strand -  
Start 8675 End 12529  
Name OJ000250\_32.0225.C4.o3.gs Method GENSCAN  
Start 8675 End 12529  
GI none Score .82  
Exons 8675..9015, 9231..9309, 9542..10213, 10260..10358, 10388..10510,  
10560..10583, 10623..10747, 10828..10910, 10956..11083,  
11195..11291, 11468..11608, 12181..12251, 12485..12529

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4  
Gene No. 60206 Strand -  
Start 8675 End 12529  
Name OJ000250\_32.0225.C4.o2.np Method AAT/NAP  
Start 9413 End 10737  
GI 6721561 Score 1056  
Exons 9413..10178, 10260..10351, 10391..10552, 10666..10737  
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the  
predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976)  
corresponds to a region of the predicted gene.; hypothetical  
protein [Oryza sativa]

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4  
Gene No. 60206 Strand -  
Start 8675 End 12529  
Name OJ000250\_32.0225.C4.o3.np Method AAT/NAP  
Start 9978 End 11567  
GI 6721558 Score 261  
Exons 9978..10178, 10619..10747, 11468..11567  
GI Descrip. (AP001073) hypothetical protein [Oryza sativa]  
gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein  
[Oryza sativa]

Seq. No. 29161 Seq. ID OJ000250\_32.0225.C4

Gene No. 60207  
 Start 13267  
 Name OJ000250\_32.0225.C4.o4.gs  
 Start 13267  
 GI none  
 Exons 13267..13430, 15323..15362

Strand -  
 End 15362  
 Method GENSCAN  
 End 15362  
 Score .83

Seq. No. 29161  
 Gene No. 60208  
 Start 21403  
 Name OJ000250\_32.0225.C4.o4.np  
 Start 21403  
 GI 6815052  
 Exons 21403..21521, 21801..21871, 21953..22116  
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 22116  
 Method AAT/NAP  
 End 22116  
 Score 258

Seq. No. 29161  
 Gene No. 60209  
 Start 22455  
 Name OJ000250\_32.0225.C4.o3.tw  
 Start 5435  
 GI none  
 Exons 5435..5554, 5505..5588, 5507..5584, 5567..5707, 5568..5828

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 23334  
 Method TBLASTX:Wheat  
 End 5828  
 Score 67

Seq. No. 29161  
 Gene No. 60209  
 Start 22455  
 Name OJ000250\_32.0225.C4.o4.tw  
 Start 6293  
 GI none  
 Exons 6293..6598, 6340..6594

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 23334  
 Method TBLASTX:Wheat  
 End 6598  
 Score 212

Seq. No. 29161  
 Gene No. 60209  
 Start 22455  
 Name OJ000250\_32.0225.C4.o1.tm  
 Start 6800  
 GI none  
 Exons 6800..7048, 6820..7041, 7048..7104, 7049..7105

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 23334  
 Method TBLASTX:Maize  
 End 7105  
 Score 250

Seq. No. 29161  
 Gene No. 60209  
 Start 22455  
 Name OJ000250\_32.0225.C4.o2.tw  
 Start 6803  
 GI none  
 Exons 6803..7048, 6811..7008, 7036..7182, 7037..7183

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 23334  
 Method TBLASTX:Wheat  
 End 7183  
 Score 210

Seq. No. 29161  
 Gene No. 60209  
 Start 22455  
 Name OJ000250\_32.0225.C4.o1.tw  
 Start 7307  
 GI none  
 Exons 7307..7480, 7468..7764, 7789..7920, 7794..7919

Seq. ID OJ000250\_32.0225.C4  
 Strand -  
 End 23334  
 Method TBLASTX:Wheat  
 End 7920  
 Score 129

Seq. No. 29161  
 Seq. ID OJ000250\_32.0225.C4

Gene No.	60209	Strand	-
Start	22455	End	23334
Name	OJ000250_32.0225.C4.o2.tm	Method	TBLASTX:Maize
Start	7618	End	7884
GI	none	Score	145
Exons	7618..7800, 7683..7799, 7794..7883, 7801..7884		

Seq. No.	29161	Seq. ID	OJ000250_32.0225.C4
Gene No.	60209	Strand	-
Start	22455	End	23334
Name	OJ000250_32.0225.C4.o6.gs	Method	GENSCAN
Start	22455	End	23334
GI	none	Score	.57
Exons	22455..22945, 23016..23334		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60210	Strand	+
Start	52	End	788
Name	OJ000250_32.0225.C5.o1.gs	Method	GENSCAN
Start	52	End	788
GI	none	Score	.51
Exons	52..110, 707..788		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60211	Strand	+
Start	707	End	867
Name	OJ000250_32.0225.C5.o1.np	Method	AAT/NAP
Start	707	End	867
GI	5852172	Score	105
Exons	707..867		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60212	Strand	+
Start	9276	End	10160
Name	OJ000250_32.0225.C5.o1.gp	Method	AAT/GAP
Start	9276	End	10160
GI	2315_3.R1084	Score	140
Exons	9276..9382, 10107..10160		
GI Descrip.	'5922603/dbj AP000492.1 AP000492 1.0e-46 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01'		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60213	Strand	+
Start	20416	End	22797
Name	OJ000250_32.0225.C5.o3.np	Method	AAT/NAP
Start	20294	End	22788
GI	4115383	Score	2093
Exons	20294..21043, 21086..21615, 21670..22788		
GI Descrip.	(AC005967) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60213	Strand	+
Start	20416	End	22797
Name	OJ000250_32.0225.C5.o4.gs	Method	GENSCAN
Start	20416	End	22797

GI	none	Score	.97
Exons	20416..22797		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60213	Strand	+
Start	20416	End	22797
Name	OJ000250_32.0225.C5.o2.gp	Method	AAT/GAP
Start	20877	End	21316
GI	none	Score	813
Exons	20877..21316		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60214	Strand	+
Start	26839	End	31083
Name	OJ000250_32.0225.C5.o5.gs	Method	GENSCAN
Start	26839	End	31083
GI	none	Score	.61
Exons	26839..26881, 29874..30476, 30491..30591, 30775..31083		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60215	Strand	-
Start	1373	End	5784
Name	OJ000250_32.0225.C5.o2.np	Method	AAT/NAP
Start	1373	End	5784
GI	2586082	Score	4301
Exons	1373..3204, 3247..3351, 3400..5784		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60216	Strand	-
Start	7252	End	15230
Name	OJ000250_32.0225.C5.o3.gs	Method	GENSCAN
Start	7252	End	15230
GI	none	Score	.54
Exons	7252..7349, 8273..8459, 8526..8608, 9762..9820, 11628..11710, 13864..14220, 14893..15022, 15169..15230		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o1.ts	Method	TBLASTX:Soybean
Start	1330	End	2020
GI	none	Score	39
Exons	1330..1371, 1409..2020, 1413..1826, 1890..2018		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o4.tc	Method	TBLASTX:Cress
Start	1373	End	2041
GI	none	Score	124
Exons	1373..1591, 1631..1747, 1757..1846, 1859..2041		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o3.tm	Method	TBLASTX:Maize

Start	1382	End	2029
GI	none	Score	79
Exons	1382..1612, 1401..1601, 1632..2021, 1637..2029		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o1.tw	Method	TBLASTX:Wheat
Start	1784	End	2221
GI	none	Score	219
Exons	1784..2221, 1785..2216		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o6.tm	Method	TBLASTX:Maize
Start	2162	End	8553
GI	none	Score	37
Exons	2162..2257, 2202..2237, 2307..2582, 2324..2602, 8428..8553		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o3.tw	Method	TBLASTX:Wheat
Start	2390	End	2734
GI	none	Score	33
Exons	2390..2734, 2391..2480, 2508..2582, 2607..2717		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o3.ts	Method	TBLASTX:Soybean
Start	2399	End	2902
GI	5509260	Score	138
Exons	2399..2902, 2412..2576, 2640..2765, 2836..2874		
GI Descrip.	-		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o3.tc	Method	TBLASTX:Cress
Start	2516	End	2786
GI	none	Score	123
Exons	2516..2785, 2517..2786		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o10.tm	Method	TBLASTX:Maize
Start	2606	End	2864
GI	none	Score	100
Exons	2606..2863, 2625..2864		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o2.tc	Method	TBLASTX:Cress

Start	3536	End	3994
GI	none	Score	56
Exons	3536..3676, 3548..3994, 3720..3983		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o4.tw	Method	TBLASTX:Wheat
Start	3536	End	3905
GI	none	Score	158
Exons	3536..3904, 3537..3905		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o4.ts	Method	TBLASTX:Soybean
Start	3563	End	3997
GI	none	Score	261
Exons	3563..3997		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o7.tm	Method	TBLASTX:Maize
Start	3575	End	4000
GI	none	Score	162
Exons	3575..3889, 3576..3926, 3911..4000		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o5.ts	Method	TBLASTX:Soybean
Start	4004	End	4408
GI	none	Score	64
Exons	4004..4174, 4199..4321, 4203..4307, 4313..4408		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o7.tw	Method	TBLASTX:Wheat
Start	4013	End	4186
GI	none	Score	93
Exons	4013..4186, 4014..4166		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o9.tm	Method	TBLASTX:Maize
Start	4493	End	4792
GI	none	Score	227
Exons	4493..4792		
Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o2.tw	Method	TBLASTX:Wheat
Start	4497	End	4883

GI	none	Score	115
Exons	4497..4670, 4497..4583, 4499..4867, 4526..4837, 4702..4839, 4704..4883		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o5.tc	Method	TBLASTX:Cress
Start	5180	End	5724
GI	none	Score	76
Exons	5180..5569, 5584..5724		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o5.tm	Method	TBLASTX:Maize
Start	5255	End	5688
GI	none	Score	155
Exons	5255..5563, 5262..5564, 5581..5688		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o5.tw	Method	TBLASTX:Wheat
Start	5255	End	5691
GI	none	Score	68
Exons	5255..5437, 5262..5462, 5442..5579, 5456..5578, 5599..5691, 5603..5686		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o6.tw	Method	TBLASTX:Wheat
Start	18253	End	39504
GI	none	Score	58
Exons	18253..18354, 21979..22125, 22011..22103, 22231..22422, 22242..22400, 39448..39504		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o4.np	Method	AAT/NAP
Start	20225	End	39912
GI	6523547	Score	455
Exons	20225..20565, 21841..21976, 22550..22686, 30441..30547, 39097..39547, 39851..39912		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o8.tm	Method	TBLASTX:Maize
Start	21205	End	21570
GI	none	Score	64
Exons	21205..21342, 21344..21454, 21348..21566, 21349..21570, 21352..21570		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o1.tm	Method	TBLASTX:Maize
Start	21575	End	22050
GI	none	Score	136
Exons	21575..21703, 21583..21702, 21714..22049, 21715..22050, 21733..22050		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o2.ts	Method	TBLASTX:Soybean
Start	21804	End	22548
GI	none	Score	294
Exons	21804..21944, 21808..22128, 22011..22109, 22234..22395, 22251..22382, 22432..22467, 22483..22548, 22488..22538		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o1.tc	Method	TBLASTX:Cress
Start	21820	End	22773
GI	none	Score	167
Exons	21820..22062, 22063..22122, 22219..22389, 22245..22385, 22467..22529, 22483..22572, 22582..22773		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o2.tm	Method	TBLASTX:Maize
Start	22059	End	22413
GI	none	Score	129
Exons	22059..22202, 22063..22212, 22064..22198, 22175..22303, 22176..22406, 22188..22412, 22189..22413		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o4.tm	Method	TBLASTX:Maize
Start	22464	End	22791
GI	none	Score	115
Exons	22464..22565, 22464..22541, 22465..22578, 22465..22563, 22512..22682, 22556..22654, 22572..22682, 22683..22787, 22684..22791		

Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o3.gp	Method	AAT/GAP
Start	22636	End	23055
GI	uC-osrocyp014c09a1	Score	823
Exons	22636..23055		
GI Descrip.	'4115383 2.0e-16 (AC005967) receptor-like protein kinase [Arabidopsis thaliana]'		



Seq. No.	29162	Seq. ID	OJ000250_32.0225.C5
Gene No.	60217	Strand	-
Start	20225	End	39983
Name	OJ000250_32.0225.C5.o5.np	Method	AAT/NAP
Start	39723	End	39983
GI	6630696	Score	238
Exons	39723..39983		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related polypeptide from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29163	Seq. ID	OJ000250_32.0225.C8
Gene No.	60218	Strand	+
Start	90	End	188
Name	OJ000250_32.0225.C8.o1.gs	Method	GENSCAN
Start	90	End	188
GI	none	Score	.73
Exons	90..188		

Seq. No.	29164	Seq. ID	OJ000250_32.0225.C11
Gene No.	60219	Strand	-
Start	139	End	217
Name	OJ000250_32.0225.C11.o1.gs	Method	GENSCAN
Start	139	End	217
GI	none	Score	.85
Exons	139..217		

Seq. No.	29165	Seq. ID	OJ000250_32.0225.C13
Gene No.	60220	Strand	
Start	132	End	555
Name	OJ000250_32.0225.C13.o1.tm	Method	TBLASTX:Maize
Start	132	End	555
GI	none	Score	83
Exons	132..239, 133..249, 246..317, 306..554, 310..555		

Seq. No.	29165	Seq. ID	OJ000250_32.0225.C13
Gene No.	60220	Strand	
Start	132	End	555
Name	OJ000250_32.0225.C13.o1.tw	Method	TBLASTX:Wheat
Start	162	End	503
GI	none	Score	184
Exons	162..185, 187..483, 189..503		

Seq. No.	29166	Seq. ID	OJ000250_32.0225.C17
Gene No.	60221	Strand	+
Start	184	End	704
Name	OJ000250_32.0225.C17.o1.gs	Method	GENSCAN
Start	184	End	349
GI	none	Score	1
Exons	184..349		

Seq. No.	29166	Seq. ID	OJ000250_32.0225.C17
Gene No.	60221	Strand	+
Start	184	End	704
Name	OJ000250_32.0225.C17.o1.np	Method	AAT/NAP
Start	191	End	704
GI	3668115	Score	143

Exons 191..349, 680..704  
 GI Descrip. (Y15069) cinnamoyl-CoA reductase [Zea mays]

Seq. No.	29166	Seq. ID	OJ000250_32.0225.C17
Gene No.	60221	Strand	+
Start	184	End	704
Name	OJ000250_32.0225.C17.o1.ts	Method	TBLASTX:Soybean
Start	249	End	363
GI	none	Score	181
Exons	249..359, 250..363		

Seq. No.	29167	Seq. ID	OJ000250_32.0225.C18
Gene No.	60222	Strand	+
Start	1	End	752
Name	OJ000250_32.0225.C18.o1.np	Method	AAT/NAP
Start	1	End	749
GI	5902445	Score	628
Exons	1..749		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	29167	Seq. ID	OJ000250_32.0225.C18
Gene No.	60222	Strand	+
Start	1	End	752
Name	OJ000250_32.0225.C18.o1.tw	Method	TBLASTX:Wheat
Start	127	End	740
GI	none	Score	129
Exons	127..300, 288..584, 299..388, 609..740, 612..659, 614..739		

Seq. No.	29167	Seq. ID	OJ000250_32.0225.C18
Gene No.	60222	Strand	+
Start	1	End	752
Name	OJ000250_32.0225.C18.o1.gs	Method	GENSCAN
Start	181	End	752
GI	none	Score	.44
Exons	181..312, 339..752		

Seq. No.	29167	Seq. ID	OJ000250_32.0225.C18
Gene No.	60222	Strand	+
Start	1	End	752
Name	OJ000250_32.0225.C18.o1.tm	Method	TBLASTX:Maize
Start	438	End	704
GI	none	Score	145
Exons	438..620, 503..619, 614..703, 621..704		

Seq. No.	29168	Seq. ID	OJ000250_32.0225.C22
Gene No.	60223	Strand	-
Start	468	End	598
Name	OJ000250_32.0225.C22.o1.gs	Method	GENSCAN
Start	468	End	598
GI	none	Score	.93
Exons	468..598		

Seq. No.	29169	Seq. ID	OJ000250_32.0225.C24
Gene No.	60224	Strand	-
Start	1	End	318
Name	OJ000250_32.0225.C24.o1.np	Method	AAT/NAP
Start	1	End	318

GI 137940 Score 450  
 Exons 1..318  
 GI Descrip. REPLICATION PROTEIN 15 gi|75892|pir||ORBP15 replication protein  
 15 - phage phi-80 gi|14807|emb|CAA31474| (X13065) gene 15 (AA 1  
 - 302) [Bacteriophage phi-80]

Seq. No. 29170 Seq. ID OJ000250\_32.0225.C26  
 Gene No. 60225 Strand +  
 Start 1 End 551  
 Name OJ000250\_32.0225.C26.o1.np Method AAT/NAP  
 Start 1 End 551  
 GI 4406792 Score 279  
 Exons 1..551  
 GI Descrip. (AC006304) putative retroelement pol polyprotein [Arabidopsis  
 thaliana]

Seq. No. 29170 Seq. ID OJ000250\_32.0225.C26  
 Gene No. 60225 Strand +  
 Start 1 End 551  
 Name OJ000250\_32.0225.C26.o1.gs Method GENSCAN  
 Start 69 End 465  
 GI none Score .42  
 Exons 69..192, 213..465

Seq. No. 29170 Seq. ID OJ000250\_32.0225.C26  
 Gene No. 60225 Strand +  
 Start 1 End 551  
 Name OJ000250\_32.0225.C26.o1.tw Method TBLASTX:Wheat  
 Start 167 End 547  
 GI none Score 61  
 Exons 167..205, 168..215, 210..512, 218..496, 219..512, 229..513,  
 452..547

Seq. No. 29170 Seq. ID OJ000250\_32.0225.C26  
 Gene No. 60225 Strand +  
 Start 1 End 551  
 Name OJ000250\_32.0225.C26.o1.tm Method TBLASTX:Maize  
 Start 213 End 478  
 GI none Score 353  
 Exons 213..476, 213..473, 218..478

Seq. No. 29171 Seq. ID OJ000250\_28.0208.C1  
 Gene No. 60226 Strand +  
 Start 198 End 375  
 Name OJ000250\_28.0208.C1.o1.gs Method GENSCAN  
 Start 198 End 375  
 GI none Score .73  
 Exons 198..375

Seq. No. 29172 Seq. ID OJ000250\_28.0208.C3  
 Gene No. 60227 Strand -  
 Start 45 End 134  
 Name OJ000250\_28.0208.C3.o1.gs Method GENSCAN  
 Start 45 End 134  
 GI none Score .96  
 Exons 45..134

Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60228	Strand	+
Start	5559	End	11887
Name	OJ000250_28.0208.C6.o2.gs	Method	GENSCAN
Start	5559	End	11215
GI	none	Score	.41
Exons	5559..5590, 6552..6693, 7266..7337, 7437..7526, 8033..8215, 8305..9163, 9489..9765, 10399..11215		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60228	Strand	+
Start	5559	End	11887
Name	OJ000250_28.0208.C6.o2.np	Method	AAT/NAP
Start	7380	End	11887
GI	5042454	Score	3910
Exons	7380..7530, 7897..8003, 8060..9765, 10399..10998, 11673..11887		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60228	Strand	+
Start	5559	End	11887
Name	OJ000250_28.0208.C6.o3.gp	Method	AAT/GAP
Start	11715	End	11887
GI	uC-osflcyp172a09a1	Score	309
Exons	11715..11887		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 1.0e-35 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60229	Strand	-
Start	1	End	4157
Name	OJ000250_28.0208.C6.o1.np	Method	AAT/NAP
Start	1	End	4157
GI	4544449	Score	119
Exons	1..26, 149..290, 4094..4157		
GI Descrip.	(AC006592) putative peroxidase [Arabidopsis thaliana]		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60229	Strand	-
Start	1	End	4157
Name	OJ000250_28.0208.C6.o1.gp	Method	AAT/GAP
Start	130	End	500
GI	25074_1.R1084	Score	677
Exons	130..500		
GI Descrip.	'4544449/gb AAD22357.1 AC006592_14 2.0e-25 (AC006592) putative peroxidase [Arabidopsis thaliana]'		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60229	Strand	-
Start	1	End	4157
Name	OJ000250_28.0208.C6.o1.tm	Method	TBLASTX:Maize
Start	147	End	304
GI	none	Score	223
Exons	147..197, 149..304, 150..302		
Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60230	Strand	

Start	8571	End	9123
Name	OJ000250_28.0208.C6.o1.tw	Method	TBLASTX:Wheat
Start	8571	End	9123
GI	none	Score	34
Exons	8571..8606, 8731..8778, 8785..8883, 8790..8882, 8850..9089, 8866..9123		

Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60230	Strand	
Start	8571	End	9123
Name	OJ000250_28.0208.C6.o2.tm	Method	TBLASTX:Maize
Start	8736	End	9021
GI	none	Score	200
Exons	8736..9020, 8773..9021		

Seq. No.	29173	Seq. ID	OJ000250_28.0208.C6
Gene No.	60231	Strand	
Start	9623	End	9766
Name	OJ000250_28.0208.C6.o3.tm	Method	TBLASTX:Maize
Start	9623	End	9766
GI	none	Score	184
Exons	9623..9766, 9628..9762		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60232	Strand	+
Start	1	End	78
Name	OJ000250_28.0208.C7.o1.np	Method	AAT/NAP
Start	1	End	78
GI	5042454	Score	90
Exons	1..78		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o2.gs	Method	GENSCAN
Start	2568	End	3917
GI	none	Score	.82
Exons	2568..3917		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o2.np	Method	AAT/NAP
Start	2571	End	3937
GI	423988	Score	798
Exons	2571..3719, 3835..3937		
GI Descrip.	serine/threonine kinase homolog PRO25 - Arabidopsis thaliana gi 166813 (L04999) serine threonine kinase [Arabidopsis thaliana]		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o1.tc	Method	TBLASTX:Cress
Start	2598	End	3593
GI	none	Score	130

Exons 2598..2711, 2721..3263, 2931..3182, 2941..3255, 3276..3593,  
3294..3392, 3301..3420, 3490..3585

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o1.tm	Method	TBLASTX:Maize
Start	2691	End	3680
GI	none	Score	52
Exons	2691..3251, 2704..2814, 2860..3252, 3282..3584, 3301..3582, 3588..3680		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o1.ts	Method	TBLASTX:Soybean
Start	2877	End	3659
GI	none	Score	212
Exons	2877..3278, 2950..3255, 3273..3425, 3280..3423, 3453..3584, 3490..3585, 3603..3659		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o1.tw	Method	TBLASTX:Wheat
Start	2955	End	3333
GI	none	Score	108
Exons	2955..3068, 2956..3069, 3075..3332, 3082..3258, 3301..3333		

Seq. No.	29174	Seq. ID	OJ000250_28.0208.C7
Gene No.	60233	Strand	-
Start	2568	End	3937
Name	OJ000250_28.0208.C7.o2.tw	Method	TBLASTX:Wheat
Start	3333	End	3585
GI	none	Score	144
Exons	3333..3566, 3334..3585		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60234	Strand	+
Start	4006	End	6444
Name	OJ000250_28.0208.C8.o2.gs	Method	GENSCAN
Start	4006	End	6444
GI	none	Score	.53
Exons	4006..4047, 6334..6444		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60235	Strand	+
Start	9341	End	9963
Name	OJ000250_28.0208.C8.o1.gp	Method	AAT/GAP
Start	9341	End	9963
GI	none	Score	1138
Exons	9341..9963		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60236	Strand	-
Start	199	End	2209
Name	OJ000250_28.0208.C8.o1.gs	Method	GENSCAN

Start	199	End	2209
GI	none	Score	.7
Exons	199..265, 1076..1210, 1727..2209		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60237	Strand	-
Start	7792	End	8519
Name	OJ000250_28.0208.C8.o3.gs	Method	GENSCAN
Start	7792	End	8519
GI	none	Score	.67
Exons	7792..7906, 8347..8519		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60238	Strand	-
Start	9625	End	28043
Name	OJ000250_28.0208.C8.o4.gs	Method	GENSCAN
Start	9625	End	27563
GI	none	Score	.44
Exons	9625..10727, 10998..11144, 11232..11592, 13146..13718, 14095..14187, 14518..15345, 16955..17490, 17653..17979, 18146..18226, 18406..18647, 18685..18862, 18874..18901, 19007..19147, 19208..19389, 22291..22429, 22687..22871, 25102..25293, 25370..26065, 26229..26393, 26494..26929, 27138..27563		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60238	Strand	-
Start	9625	End	28043
Name	OJ000250_28.0208.C8.o1.np	Method	AAT/NAP
Start	9628	End	22498
GI	5803260	Score	1048
Exons	9628..10780, 11069..11158, 11231..11694, 13140..13374, 19247..19366, 22399..22498		
GI Descrip.	(AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60238	Strand	-
Start	9625	End	28043
Name	OJ000250_28.0208.C8.o2.gp	Method	AAT/GAP
Start	16637	End	17275
GI	3768316	Score	1155
Exons	16637..17275		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60238	Strand	-
Start	9625	End	28043
Name	OJ000250_28.0208.C8.o3.gp	Method	AAT/GAP
Start	17516	End	18289
GI	87053_1.R1084	Score	1133
Exons	17516..17979, 18146..18289		
GI Descrip.	'4826399/emb CAB42872.1  3.0e-22 (AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]'		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60238	Strand	-
Start	9625	End	28043
Name	OJ000250_28.0208.C8.o2.np	Method	AAT/NAP

Start 21020 End 24142  
 GI 4996642 Score 667  
 Exons 21020..21046, 22251..22801, 24108..24142  
 GI Descrip. (AB028130) Dof zinc finger protein [Oryza sativa]

Seq. No. 29175 Seq. ID OJ000250\_28.0208.C8  
 Gene No. 60238 Strand -  
 Start 9625 End 28043  
 Name OJ000250\_28.0208.C8.o4.np Method AAT/NAP  
 Start 24485 End 27575  
 GI 4966347 Score 740  
 Exons 24485..24526, 24923..26061, 26280..26393, 26494..26702,  
 26756..26928, 27134..27575  
 GI Descrip. (AC006341) Similar to gb|AJ012423 wall-associated kinase 2 from  
 Arabidopsis thaliana.

Seq. No. 29175 Seq. ID OJ000250\_28.0208.C8  
 Gene No. 60238 Strand -  
 Start 9625 End 28043  
 Name OJ000250\_28.0208.C8.o3.np Method AAT/NAP  
 Start 24899 End 28043  
 GI 5803260 Score 1011  
 Exons 24899..26058, 26312..26408, 26494..26938, 27117..27467,  
 27918..28043  
 GI Descrip. (AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]

Seq. No. 29175 Seq. ID OJ000250\_28.0208.C8  
 Gene No. 60239 Strand -  
 Start 28251 End 31247  
 Name OJ000250\_28.0208.C8.o1.tc Method TBLASTX:Cress  
 Start 194 End 26704  
 GI none Score 226  
 Exons 194..262, 2024..2089, 9775..10302, 9986..10303, 10336..10638,  
 10355..10474, 10366..10638, 10577..10645, 10648..10788,  
 11233..11328, 11323..11412, 11575..11625, 11641..11724,  
 16961..17485, 17124..17438, 17198..17446, 17513..17818,  
 17538..17717, 17843..17980, 18425..18511, 18506..18625,  
 25052..25300, 25302..25571, 25303..25524, 25356..25571,  
 25599..25904, 25624..25743, 25929..26069, 26489..26590,  
 26585..26704

Seq. No. 29175 Seq. ID OJ000250\_28.0208.C8  
 Gene No. 60239 Strand -  
 Start 28251 End 31247  
 Name OJ000250\_28.0208.C8.o1.tm Method TBLASTX:Maize  
 Start 9754 End 26003  
 GI none Score 230  
 Exons 9754..10305, 9962..10306, 10336..10638, 10355..10540,  
 10360..10626, 10580..10636, 10654..10725, 10676..10717,  
 16928..17488, 17184..17438, 17519..17845, 17538..17723,  
 17540..17818, 17825..17917, 17868..17915, 25019..25300,  
 25026..25139, 25302..25574, 25303..25524, 25605..25931,  
 25624..25809, 25911..26003

Seq. No. 29175 Seq. ID OJ000250\_28.0208.C8  
 Gene No. 60239 Strand -  
 Start 28251 End 31247



Name	OJ000250_28.0208.C8.o1.ts	Method	TBLASTX:Soybean
Start	9931	End	25982
GI	none	Score	179
Exons	9931..10302, 9998..10306, 10336..10479, 10501..10674, 10654..10704, 17114..17485, 17183..17299, 17187..17438, 17510..17662, 17538..17660, 17690..17818, 17834..17896, 25205..25300, 25302..25571, 25303..25524, 25596..25748, 25624..25746, 25776..25904, 25920..25982		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60239	Strand	-
Start	28251	End	31247
Name	OJ000250_28.0208.C8.o1.tw	Method	TBLASTX:Wheat
Start	9991	End	25656
GI	none	Score	121
Exons	9991..10122, 9998..10123, 10129..10314, 10136..10249, 10351..10386, 10355..10387, 17192..17305, 17193..17306, 17295..17432, 17312..17569, 17538..17570, 25302..25391, 25303..25392, 25410..25655, 25414..25518, 25624..25656		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60239	Strand	-
Start	28251	End	31247
Name	OJ000250_28.0208.C8.o2.tw	Method	TBLASTX:Wheat
Start	10336	End	25923
GI	none	Score	77
Exons	10336..10620, 10388..10525, 10592..10639, 17570..17803, 17571..17702, 17731..17787, 17772..17837, 25656..25889, 25657..25803, 25817..25873, 25858..25923		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60239	Strand	-
Start	28251	End	31247
Name	OJ000250_28.0208.C8.o2.tm	Method	TBLASTX:Maize
Start	22298	End	22703
GI	none	Score	37
Exons	22298..22327, 22299..22331, 22365..22400, 22366..22488, 22394..22420, 22436..22480, 22444..22488, 22480..22617, 22498..22683, 22536..22568, 22540..22581, 22582..22686, 22583..22693, 22680..22703		

Seq. No.	29175	Seq. ID	OJ000250_28.0208.C8
Gene No.	60239	Strand	-
Start	28251	End	31247
Name	OJ000250_28.0208.C8.o5.np	Method	AAT/NAP
Start	28251	End	31247
GI	4056478	Score	98
Exons	28251..28296, 30907..31247		
GI Descrip.	(AC005896) unknown protein [Arabidopsis thaliana]		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60240	Strand	+
Start	7894	End	8291
Name	OJ000250_28.0208.C9.o2.np	Method	AAT/NAP
Start	7894	End	8291
GI	3063699	Score	130
Exons	7894..8291		

GI Descrip. (AL022537) putative protein [Arabidopsis thaliana]

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.gs	Method	GENSCAN
Start	256	End	6589
GI	none	Score	.49
Exons	256..330, 444..476, 505..845, 2751..2837, 4431..5606, 5993..6151, 6232..6589		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.np	Method	AAT/NAP
Start	4339	End	8291
GI	5803260	Score	964
Exons	4339..5506, 6070..6158, 6224..6684, 8255..8291		
GI Descrip.	(AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.tm	Method	TBLASTX:Maize
Start	4468	End	5451
GI	none	Score	201
Exons	4468..5019, 4712..4969, 4738..5010, 5050..5352, 5053..5355, 5087..5401, 5368..5451		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.tc	Method	TBLASTX:Cress
Start	4489	End	6634
GI	none	Score	190
Exons	4489..5355, 4682..4969, 4750..4992, 5072..5362, 5380..5517, 6233..6295, 6320..6415, 6578..6634		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.ts	Method	TBLASTX:Soybean
Start	4645	End	5430
GI	none	Score	189
Exons	4645..5202, 4712..4969, 5081..5203, 5213..5293, 5224..5355, 5374..5430		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-
Start	256	End	8291
Name	OJ000250_28.0208.C9.o2.tw	Method	TBLASTX:Wheat
Start	4705	End	4974
GI	none	Score	115
Exons	4705..4836, 4712..4837, 4843..4974, 4847..4963		

Seq. No.	29176	Seq. ID	OJ000250_28.0208.C9
Gene No.	60241	Strand	-

Start	256	End	8291
Name	OJ000250_28.0208.C9.o1.tw	Method	TBLASTX:Wheat
Start	4975	End	5356
GI	none	Score	63
Exons	4975..5016, 5047..5163, 5053..5337, 5063..5356		

Seq. No.	29177	Seq. ID	OJ000250_28.0208.C10
Gene No.	60242	Strand	+
Start	2154	End	2747
Name	OJ000250_28.0208.C10.o2.gs	Method	GENSCAN
Start	2154	End	2747
GI	none	Score	.88
Exons	2154..2208, 2249..2296, 2674..2747		

Seq. No.	29177	Seq. ID	OJ000250_28.0208.C10
Gene No.	60243	Strand	-
Start	1	End	1148
Name	OJ000250_28.0208.C10.o1.np	Method	AAT/NAP
Start	1	End	1148
GI	6907086	Score	981
Exons	1..333, 391..1148		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	29177	Seq. ID	OJ000250_28.0208.C10
Gene No.	60243	Strand	-
Start	1	End	1148
Name	OJ000250_28.0208.C10.o1.gs	Method	GENSCAN
Start	462	End	965
GI	none	Score	1
Exons	462..965		

Seq. No.	29178	Seq. ID	OJ000250_28.0208.C11
Gene No.	60244	Strand	+
Start	1	End	451
Name	OJ000250_28.0208.C11.o1.np	Method	AAT/NAP
Start	1	End	451
GI	4104457	Score	292
Exons	1..95, 339..451		
GI Descrip.	(AF036172) 2-oxoglutarate/malate translocator [Zea mays]		

Seq. No.	29178	Seq. ID	OJ000250_28.0208.C11
Gene No.	60245	Strand	+
Start	988	End	1063
Name	OJ000250_28.0208.C11.o1.tm	Method	TBLASTX:Maize
Start	4	End	514
GI	none	Score	153
Exons	4..93, 5..106, 6..95, 337..504, 338..493, 341..514, 342..503		

Seq. No.	29178	Seq. ID	OJ000250_28.0208.C11
Gene No.	60245	Strand	+
Start	988	End	1063
Name	OJ000250_28.0208.C11.o1.gs	Method	GENSCAN
Start	988	End	1063
GI	none	Score	.85
Exons	988..1063		

Seq. No.	29179	Seq. ID	OJ000250_28.0208.C12
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Gene No. 60246  
 Start 852  
 Name OJ000250\_28.0208.C12.o1.gs  
 Start 852  
 GI none  
 Exons 852..1029

Strand +  
 End 1029  
 Method GENSCAN  
 End 1029  
 Score .46

Seq. No. 29180  
 Gene No. 60247  
 Start 143  
 Name OJ000250\_28.0208.C13.o1.gs  
 Start 143  
 GI none  
 Exons 143..212, 361..384, 2823..2984, 3750..3851, 4025..4125, 4713..5377, 6330..6624, 6705..6833, 7712..7840

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 7840  
 Method GENSCAN  
 End 7840  
 Score .4

Seq. No. 29180  
 Gene No. 60248  
 Start 15507  
 Name OJ000250\_28.0208.C13.o1.np  
 Start 15297  
 GI 5006853  
 Exons 15297..15366, 15484..15830, 15957..16370  
 GI Descrip. (AF145728) homeodomain leucine zipper protein [Oryza sativa]

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 16373  
 Method AAT/NAP  
 End 16370  
 Score 1391

Seq. No. 29180  
 Gene No. 60248  
 Start 15507  
 Name OJ000250\_28.0208.C13.o3.gs  
 Start 15507  
 GI none  
 Exons 15507..15830, 15957..16373

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 16373  
 Method GENSCAN  
 End 16373  
 Score .86

Seq. No. 29180  
 Gene No. 60249  
 Start 16650  
 Name OJ000250\_28.0208.C13.o4.gs  
 Start 16650  
 GI none  
 Exons 16650..16682, 16843..17041, 17241..17280, 17495..17647, 19624..19683, 20305..20474, 20582..20649, 22055..22217, 22358..22422

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 22422  
 Method GENSCAN  
 End 22422  
 Score .53

Seq. No. 29180  
 Gene No. 60250  
 Start 30715  
 Name OJ000250\_28.0208.C13.o6.gs  
 Start 30715  
 GI none  
 Exons 30715..31239, 32098..32304, 32386..32625, 33155..33221, 33322..33465, 33652..33747, 34309..34424, 34503..34639, 34999..35200

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 35200  
 Method GENSCAN  
 End 35200  
 Score .79

Seq. No. 29180  
 Gene No. 60250  
 Start 30715  
 Name OJ000250\_28.0208.C13.o2.np

Seq. ID OJ000250\_28.0208.C13  
 Strand +  
 End 35200  
 Method AAT/NAP

Start 30727 End 35179  
 GI 4490756 Score 1154  
 Exons 30727..31071, 31099..31239, 32098..32304, 32386..32625,  
 33155..33253, 33328..33465, 33649..33747, 34267..34424,  
 34500..34639, 34999..35179

GI Descrip. (AL035708) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60251 Strand +  
 Start 41565 End 44102  
 Name OJ000250\_28.0208.C13.o8.gs Method GENSCAN  
 Start 41565 End 44102  
 GI none Score .9  
 Exons 41565..41685, 41773..41942, 42083..42230, 42937..43143,  
 43996..44102

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60251 Strand +  
 Start 41565 End 44102  
 Name OJ000250\_28.0208.C13.o3.np Method AAT/NAP  
 Start 41574 End 44078  
 GI 4512685 Score 280  
 Exons 41574..41685, 41806..41942, 42083..42245, 42946..43143,  
 43955..44078

GI Descrip. (AC006931) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60252 Strand -  
 Start 11532 End 13564  
 Name OJ000250\_28.0208.C13.o2.gs Method GENSCAN  
 Start 11532 End 13564  
 GI none Score .78  
 Exons 11532..11645, 13337..13564

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60253 Strand -  
 Start 22482 End 26188  
 Name OJ000250\_28.0208.C13.o5.gs Method GENSCAN  
 Start 22482 End 26188  
 GI none Score .5  
 Exons 22482..22658, 22849..22965, 23705..23865, 24236..24409,  
 25906..26188

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60254 Strand -  
 Start 44717 End 45386  
 Name OJ000250\_28.0208.C13.o1.tw Method TBLASTX:Wheat  
 Start 4946 End 15764  
 GI none Score 46  
 Exons 4946..4975, 4994..5026, 15492..15524, 15563..15733,  
 15564..15764, 15591..15764

Seq. No. 29180 Seq. ID OJ000250\_28.0208.C13  
 Gene No. 60254 Strand -  
 Start 44717 End 45386  
 Name OJ000250\_28.0208.C13.o1.tm Method TBLASTX:Maize  
 Start 15483 End 16438

GI	none	Score	61
Exons	15483..15527, 15563..15733, 15564..15836, 15591..15830, 15948..16004, 15984..16046, 16215..16343, 16217..16309, 16260..16379, 16358..16438		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o1.tc	Method	TBLASTX:Cress
Start	15504	End	15833
GI	none	Score	355
Exons	15504..15833, 15677..15733, 15768..15821		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o1.ts	Method	TBLASTX:Soybean
Start	15563	End	15836
GI	none	Score	356
Exons	15563..15598, 15564..15836, 15674..15733		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o3.ts	Method	TBLASTX:Soybean
Start	30742	End	31044
GI	none	Score	106
Exons	30742..30846, 30832..31044		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o4.tm	Method	TBLASTX:Maize
Start	30751	End	31053
GI	none	Score	227
Exons	30751..31053		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o3.tc	Method	TBLASTX:Cress
Start	30754	End	30993
GI	none	Score	221
Exons	30754..30993		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o5.tm	Method	TBLASTX:Maize
Start	32107	End	32466
GI	none	Score	149
Exons	32107..32313, 32109..32315, 32374..32466, 32379..32456		
Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o2.tm	Method	TBLASTX:Maize

Start	32485	End	35199
GI	none	Score	219
Exons	32485..32628, 32485..32622, 32487..32627, 33155..33226, 33156..33242, 33309..33482, 33317..33466, 33319..33498, 33650..33748, 33650..33748, 33651..33749, 33682..33762, 34238..34420, 34247..34426, 34248..34424, 34502..34639, 34503..34649, 34528..34647, 34977..35033, 34984..35019, 35024..35128, 35059..35142, 35125..35199, 35135..35194		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o4.ts	Method	TBLASTX:Soybean
Start	33651	End	34649
GI	none	Score	109
Exons	33651..33743, 34254..34409, 34262..34402, 34503..34649, 34514..34624		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o5.ts	Method	TBLASTX:Soybean
Start	42089	End	43142
GI	none	Score	127
Exons	42089..42205, 42094..42195, 42977..43051, 42978..43142		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o9.gs	Method	GENSCAN
Start	44717	End	45352
GI	none	Score	.99
Exons	44717..45352		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o4.np	Method	AAT/NAP
Start	44759	End	45386
GI	4544449	Score	664
Exons	44759..45386		
GI Descrip.	(AC006592) putative peroxidase [Arabidopsis thaliana]		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o2.tc	Method	TBLASTX:Cress
Start	44798	End	45164
GI	none	Score	80
Exons	44798..44932, 44802..44924, 44933..45049, 44952..45050, 45092..45163, 45093..45164		

  

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o3.tm	Method	TBLASTX:Maize
Start	44798	End	45371

GI	none	Score	74
Exons	44798..44824, 44843..45055, 44844..45056, 45041..45349, 45162..45371		

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o2.ts	Method	TBLASTX:Soybean
Start	45089	End	45362
GI	none	Score	225
Exons	45089..45352, 45093..45362, 45252..45362		

Seq. No.	29180	Seq. ID	OJ000250_28.0208.C13
Gene No.	60254	Strand	-
Start	44717	End	45386
Name	OJ000250_28.0208.C13.o2.tw	Method	TBLASTX:Wheat
Start	45095	End	45353
GI	none	Score	79
Exons	45095..45352, 45165..45353		

Seq. No.	29181	Seq. ID	OJ000250_28.0208.C14
Gene No.	60255	Strand	+
Start	492	End	797
Name	OJ000250_28.0208.C14.o1.np	Method	AAT/NAP
Start	492	End	797
GI	2498930	Score	160
Exons	492..552, 720..797		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	29181	Seq. ID	OJ000250_28.0208.C14
Gene No.	60255	Strand	+
Start	492	End	797
Name	OJ000250_28.0208.C14.o1.gs	Method	GENSCAN
Start	493	End	552
GI	none	Score	.94
Exons	493..552		

Seq. No.	29182	Seq. ID	OJ000250_25.0225.C1
Gene No.	60256	Strand	+
Start	1296	End	1689
Name	OJ000250_25.0225.C1.o2.np	Method	AAT/NAP
Start	1296	End	1689
GI	6006374	Score	615
Exons	1296..1689		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	29182	Seq. ID	OJ000250_25.0225.C1
Gene No.	60257	Strand	-
Start	139	End	666
Name	OJ000250_25.0225.C1.o1.gp	Method	AAT/GAP
Start	139	End	666
GI	21466_1.R1084	Score	949
Exons	139..666		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		



Seq. No.	29182	Seq. ID	OJ000250_25.0225.C1
Gene No.	60257	Strand	-
Start	139	End	666
Name	OJ000250_25.0225.C1.o1.gs	Method	GENSCAN
Start	434	End	568
GI	none	Score	.71
Exons	434..568		
Seq. No.	29183	Seq. ID	OJ000250_25.0225.C2
Gene No.	60258	Strand	+
Start	1	End	1499
Name	OJ000250_25.0225.C2.o1.np	Method	AAT/NAP
Start	1	End	1499
GI	6006374	Score	2440
Exons	1..1499		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		
Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60259	Strand	-
Start	1	End	1360
Name	OJ000250_25.0225.C3.o1.np	Method	AAT/NAP
Start	1	End	1339
GI	4680207	Score	429
Exons	1..248, 538..1339		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		
Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60259	Strand	-
Start	1	End	1360
Name	OJ000250_25.0225.C3.o2.np	Method	AAT/NAP
Start	1	End	1360
GI	6721550	Score	304
Exons	1..332, 475..1360		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib (AB013448)		
Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60259	Strand	-
Start	1	End	1360
Name	OJ000250_25.0225.C3.o1.gs	Method	GENSCAN
Start	539	End	1324
GI	none	Score	.6
Exons	539..1324		
Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60260	Strand	-
Start	1495	End	2085
Name	OJ000250_25.0225.C3.o2.tm	Method	TBLASTX:Maize
Start	2	End	341
GI	none	Score	283
Exons	2..334, 3..341, 3..335		
Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60260	Strand	-
Start	1495	End	2085

Name	OJ000250_25.0225.C3.o1.tm	Method	TBLASTX:Maize
Start	790	End	1315
GI	none	Score	123
Exons	790..1029, 791..1039, 803..1039, 804..1055, 840..1040, 1082..1315, 1091..1315		

Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60260	Strand	-
Start	1495	End	2085
Name	OJ000250_25.0225.C3.o1.tw	Method	TBLASTX:Wheat
Start	1112	End	1352
GI	none	Score	148
Exons	1112..1345, 1112..1345, 1131..1349, 1200..1352		

Seq. No.	29184	Seq. ID	OJ000250_25.0225.C3
Gene No.	60260	Strand	-
Start	1495	End	2085
Name	OJ000250_25.0225.C3.o1.gp	Method	AAT/GAP
Start	1495	End	2085
GI	LIB3475-007-P1-K1-D5	Score	1155
Exons	1495..2085		
GI Descrip.	'4262186/gb AAD14503  3.0e-18 (AC005508) Highly similar to cullin 3 [Arabidopsis thaliana]'		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60261	Strand	+
Start	6623	End	9928
Name	OJ000250_25.0225.C4.o2.gs	Method	GENSCAN
Start	6623	End	9928
GI	none	Score	.92
Exons	6623..9928		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60261	Strand	+
Start	6623	End	9928
Name	OJ000250_25.0225.C4.o2.np	Method	AAT/NAP
Start	6623	End	9925
GI	5803259	Score	4397
Exons	6623..7881, 7981..8213, 8259..9925		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60262	Strand	+
Start	16771	End	17300
Name	OJ000250_25.0225.C4.o4.np	Method	AAT/NAP
Start	16771	End	17300
GI	5922623	Score	109
Exons	16771..16878, 17258..17300		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60263	Strand	-
Start	209	End	3987
Name	OJ000250_25.0225.C4.o1.gp	Method	AAT/GAP
Start	209	End	539

GI 3760149 Score 601  
 Exons 209..539  
 GI Descrip. 4262186/gb|AAD14503| 3.0e-18 (AC005508) Highly similar to cullin 3 [Arabidopsis thaliana]

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60263 Strand -  
 Start 209 End 3987  
 Name OJ000250\_25.0225.C4.o1.np Method AAT/NAP  
 Start 312 End 3834  
 GI 4262186 Score 2693  
 Exons 312..2346, 3674..3834  
 GI Descrip. (AC005508) Highly similar to cullin 3 [Arabidopsis thaliana]

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60263 Strand -  
 Start 209 End 3987  
 Name OJ000250\_25.0225.C4.o2.gp Method AAT/GAP  
 Start 3705 End 3987  
 GI 2311985 Score 511  
 Exons 3705..3987

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60264 Strand -  
 Start 10539 End 16694  
 Name OJ000250\_25.0225.C4.o3.gs Method GENSCAN  
 Start 10539 End 14204  
 GI none Score .98  
 Exons 10539..14204

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60264 Strand -  
 Start 10539 End 16694  
 Name OJ000250\_25.0225.C4.o3.np Method AAT/NAP  
 Start 10542 End 16188  
 GI 6498441 Score 6811  
 Exons 10542..10823, 10917..12314, 12486..12968, 13161..13401, 13576..13710, 13894..14267, 14331..14794, 15125..16188  
 GI Descrip. (AF000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60264 Strand -  
 Start 10539 End 16694  
 Name OJ000250\_25.0225.C4.o4.gs Method GENSCAN  
 Start 14268 End 16694  
 GI none Score .52  
 Exons 14268..16694

Seq. No. 29185 Seq. ID OJ000250\_25.0225.C4  
 Gene No. 60265 Strand -  
 Start 16924 End 17300  
 Name OJ000250\_25.0225.C4.o2.ts Method TBLASTX:Soybean  
 Start 289 End 675  
 GI none Score 340  
 Exons 289..675, 310..441, 330..674

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o10.tw	Method	TBLASTX:Wheat
Start	298	End	557
GI	none	Score	62
Exons	298..432, 342..557		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o1.tm	Method	TBLASTX:Maize
Start	309	End	1695
GI	none	Score	223
Exons	309..497, 313..1059, 316..597, 330..1049, 979..1053, 1045..1695, 1062..1694, 1330..1695		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o3.tc	Method	TBLASTX:Cress
Start	310	End	587
GI	none	Score	244
Exons	310..555, 313..585, 330..587		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o1.ts	Method	TBLASTX:Soybean
Start	612	End	1460
GI	none	Score	556
Exons	612..641, 675..1334, 682..1281, 1094..1333, 1332..1460, 1338..1451, 1339..1452		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o1.tc	Method	TBLASTX:Cress
Start	669	End	1116
GI	none	Score	365
Exons	669..1061, 685..1062, 1054..1116, 1059..1115		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o8.tw	Method	TBLASTX:Wheat
Start	696	End	1142
GI	none	Score	62
Exons	696..839, 858..1082, 1074..1142		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o4.tc	Method	TBLASTX:Cress
Start	1338	End	1590
GI	none	Score	75

Exons 1338..1457, 1338..1589, 1339..1590

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o5.ts	Method	TBLASTX:Soybean
Start	1462	End	1671
GI	none	Score	148
Exons	1462..1671, 1464..1670		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o2.tm	Method	TBLASTX:Maize
Start	1701	End	2250
GI	none	Score	557
Exons	1701..2246, 1701..2249, 1702..2250		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o2.tc	Method	TBLASTX:Cress
Start	1752	End	2207
GI	none	Score	206
Exons	1752..2204, 1752..2207, 1753..2205		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o8.ts	Method	TBLASTX:Soybean
Start	1812	End	1958
GI	none	Score	102
Exons	1812..1958, 1815..1958		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o3.ts	Method	TBLASTX:Soybean
Start	1959	End	2348
GI	none	Score	217
Exons	1959..2339, 1959..2348		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o6.tm	Method	TBLASTX:Maize
Start	2252	End	9743
GI	none	Score	102
Exons	2252..2347, 2256..2357, 2256..2348, 3674..3805, 3676..3822, 9609..9743		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o6.tw	Method	TBLASTX:Wheat
Start	7113	End	16040
GI	none	Score	57

Exons 7113..7187, 15648..15905, 15760..15921, 15888..15986,  
15889..15969, 15993..16040

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o7.tm	Method	TBLASTX:Maize
Start	10501	End	10682
GI	none	Score	130
Exons	10501..10677, 10515..10682		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o7.tw	Method	TBLASTX:Wheat
Start	10551	End	11153
GI	none	Score	83
Exons	10551..10676, 10555..10677, 10869..11153, 10870..11148		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o4.tw	Method	TBLASTX:Wheat
Start	11154	End	11535
GI	none	Score	165
Exons	11154..11534, 11185..11433, 11479..11535		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o4.tm	Method	TBLASTX:Maize
Start	11349	End	11672
GI	none	Score	192
Exons	11349..11672, 11362..11643		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o9.tw	Method	TBLASTX:Wheat
Start	11865	End	12177
GI	none	Score	67
Exons	11865..12125, 12001..12177		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o6.ts	Method	TBLASTX:Soybean
Start	11925	End	12491
GI	5666795	Score	64
Exons	11925..12125, 12180..12317, 12393..12491		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o5.tw	Method	TBLASTX:Wheat
Start	12180	End	12641



GI	none	Score	165
Exons	14427..14909, 14455..14715, 14737..14910		
Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o8.tm	Method	TBLASTX:Maize
Start	15750	End	16035
GI	none	Score	86
Exons	15750..15998, 15751..16035		

Seq. No.	29185	Seq. ID	OJ000250_25.0225.C4
Gene No.	60265	Strand	-
Start	16924	End	17300
Name	OJ000250_25.0225.C4.o5.np	Method	AAT/NAP
Start	16924	End	17300
GI	5042454	Score	171
Exons	16924..16973, 17199..17300		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60266	Strand	+
Start	1	End	303
Name	OJ000250_25.0225.C5.o1.np	Method	AAT/NAP
Start	1	End	303
GI	5922623	Score	123
Exons	1..60, 228..303		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60267	Strand	+
Start	228	End	4990
Name	OJ000250_25.0225.C5.o1.gs	Method	GENSCAN
Start	228	End	4990
GI	none	Score	.91
Exons	228..303, 1668..1750, 2089..2249, 2348..2412, 2581..2621, 3080..3168, 3478..3555, 4282..4362, 4451..4522, 4985..4990		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60267	Strand	+
Start	228	End	4990
Name	OJ000250_25.0225.C5.o1.gp	Method	AAT/GAP
Start	1721	End	3116
GI	none	Score	911
Exons	1721..1916, 2089..2249, 2348..2412, 2581..2621, 3080..3116		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60267	Strand	+
Start	228	End	4990
Name	OJ000250_25.0225.C5.o2.np	Method	AAT/NAP
Start	1830	End	4555
GI	6539255	Score	505
Exons	1830..2005, 2118..2249, 2348..2412, 2581..2626, 3073..3168, 3254..3367, 3478..3555, 3771..3836, 4288..4362, 4451..4555		
GI Descrip.	(AC011765) unknown protein [Arabidopsis thaliana]		



Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o1.tw	Method	TBLASTX:Wheat
Start	1766	End	2623
GI	none	Score	62
Exons	1766..1819, 1771..1842, 2082..2255, 2090..2167, 2220..2255, 2345..2425, 2345..2425, 2347..2427, 2564..2620, 2582..2623		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o1.ts	Method	TBLASTX:Soybean
Start	2085	End	2425
GI	none	Score	162
Exons	2085..2249, 2351..2425		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o2.tm	Method	TBLASTX:Maize
Start	2090	End	2374
GI	none	Score	180
Exons	2090..2167, 2091..2225, 2345..2374		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o1.tm	Method	TBLASTX:Maize
Start	3244	End	4507
GI	none	Score	117
Exons	3244..3369, 3244..3369, 3251..3370, 3422..3550, 3477..3551, 3477..3554, 3478..3555, 3757..3828, 3770..3835, 3771..3836, 4279..4362, 4285..4383, 4442..4507, 4446..4505, 4448..4507		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o3.np	Method	AAT/NAP
Start	3406	End	12034
GI	2129537	Score	286
Exons	3406..3506, 5657..5758, 5859..5933, 6106..6167, 6254..6327, 6405..6504, 7488..7574, 7668..7697, 11971..12034		
GI Descrip.	AP2 domain-containing protein - Arabidopsis thaliana gi 1209099 (U40256) AINTEGUMENTA [Arabidopsis thaliana] gi 1244708 (U41339) ANT [Arabidopsis thaliana] gi 4490720 emb CAB38923.1  (AL035709) ovule development protein aintegumenta (ANT) [Arabidopsis thaliana]		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o2.gp	Method	AAT/GAP
Start	5351	End	8015
GI	67347_2.R1084	Score	2045
Exons	5351..5758, 5859..5941, 6117..6166, 6254..6327, 6405..6506,		

7492..7574, 7668..8015  
 GI Descrip. '5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic  
 DNA, chromosome 6, clone:P0535G04'

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o5.np	Method	AAT/NAP
Start	5447	End	12940
GI	5042454	Score	259
Exons	5447..5483, 12377..12470, 12790..12940		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o2.gs	Method	GENSCAN
Start	5574	End	8301
GI	none	Score	.65
Exons	5574..5758, 5859..5941, 6117..6167, 6254..6327, 6405..6499, 7492..7574, 7668..8047, 8287..8301		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o2.tw	Method	TBLASTX:Wheat
Start	5859	End	7562
GI	none	Score	114
Exons	5859..5948, 5859..5939, 5860..5952, 5861..5953, 5861..5962, 6116..6166, 6117..6170, 6249..6326, 6253..6330, 6253..6333, 6402..6500, 6404..6499, 6405..6500, 6406..6501, 7493..7561, 7494..7562		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o4.np	Method	AAT/NAP
Start	7879	End	9323
GI	3894191	Score	101
Exons	7879..7910, 9160..9323		
GI Descrip.	(AC005662) unknown protein [Arabidopsis thaliana]		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o3.gs	Method	GENSCAN
Start	9065	End	10015
GI	none	Score	1
Exons	9065..10015		

Seq. No.	29186	Seq. ID	OJ000250_25.0225.C5
Gene No.	60268	Strand	-
Start	3406	End	12940
Name	OJ000250_25.0225.C5.o4.gs	Method	GENSCAN
Start	11112	End	12940
GI	none	Score	.63
Exons	11112..11138, 11638..11705, 12790..12940		

Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60269	Strand	+
Start	17	End	738
Name	OJ000250_25.0225.C6.o1.gs	Method	GENSCAN
Start	17	End	738
GI	none	Score	.79
Exons	17..45, 145..178, 291..461, 637..738		
Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60270	Strand	-
Start	1	End	3370
Name	OJ000250_25.0225.C6.o1.np	Method	AAT/NAP
Start	1	End	3370
GI	5042454	Score	3581
Exons	1..260, 294..712, 1350..3059, 3115..3370		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60270	Strand	-
Start	1	End	3370
Name	OJ000250_25.0225.C6.o1.gp	Method	AAT/GAP
Start	746	End	1206
GI	2428323	Score	689
Exons	746..1206		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		
Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60270	Strand	-
Start	1	End	3370
Name	OJ000250_25.0225.C6.o2.gs	Method	GENSCAN
Start	1349	End	3041
GI	none	Score	.51
Exons	1349..1626, 1865..3041		
Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60270	Strand	-
Start	1	End	3370
Name	OJ000250_25.0225.C6.o1.tw	Method	TBLASTX:Wheat
Start	1995	End	2387
GI	none	Score	89
Exons	1995..2252, 2029..2268, 2235..2333, 2236..2316, 2340..2387		
Seq. No.	29187	Seq. ID	OJ000250_25.0225.C6
Gene No.	60270	Strand	-
Start	1	End	3370
Name	OJ000250_25.0225.C6.o1.tm	Method	TBLASTX:Maize
Start	2097	End	2382
GI	none	Score	103
Exons	2097..2345, 2098..2382		
Seq. No.	29188	Seq. ID	OJ000250_25.0225.C7
Gene No.	60271	Strand	-
Start	1	End	430
Name	OJ000250_25.0225.C7.o1.np	Method	AAT/NAP
Start	1	End	430

GI	6742729	Score	319
Exons	1..430		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	29188	Seq. ID	OJ000250_25.0225.C7
Gene No.	60271	Strand	-
Start	1	End	430
Name	OJ000250_25.0225.C7.o1.gs	Method	GENSCAN
Start	101	End	293
GI	none	Score	.47
Exons	101..293		

Seq. No.	29188	Seq. ID	OJ000250_25.0225.C7
Gene No.	60271	Strand	-
Start	1	End	430
Name	OJ000250_25.0225.C7.o1.ts	Method	TBLASTX:Soybean
Start	210	End	428
GI	none	Score	78
Exons	210..428, 219..419, 283..420		

Seq. No.	29189	Seq. ID	OJ000250_25.0225.C8
Gene No.	60272	Strand	+
Start	176	End	295
Name	OJ000250_25.0225.C8.o1.gp	Method	AAT/GAP
Start	176	End	295
GI	6751_1.R1084	Score	163
Exons	176..295		
GI Descrip.	'21810/emb X67328 TAHSP266 2.0e-11 T.aestivum mRNA for heat shock protein 26.6B'		

Seq. No.	29189	Seq. ID	OJ000250_25.0225.C8
Gene No.	60273	Strand	-
Start	1	End	530
Name	OJ000250_25.0225.C8.o1.np	Method	AAT/NAP
Start	1	End	530
GI	2133437	Score	43
Exons	1..102, 278..530		
GI Descrip.	RNA polymerase II second largest chain RPB2 - Euplotes octocarinatus (SGC9) gi 2654279 emb CAA47069  (X66453) DNA-directed RNA polymerase [Euplotes octocarinatus]		

Seq. No.	29189	Seq. ID	OJ000250_25.0225.C8
Gene No.	60273	Strand	-
Start	1	End	530
Name	OJ000250_25.0225.C8.o1.gs	Method	GENSCAN
Start	193	End	269
GI	none	Score	.54
Exons	193..269		

Seq. No.	29190	Seq. ID	OJ000250_25.0225.C10
Gene No.	60274	Strand	+
Start	738	End	769
Name	OJ000250_25.0225.C10.o1.gs	Method	GENSCAN
Start	738	End	769
GI	none	Score	.5
Exons	738..769		

Seq. No.	29191	Seq. ID	OJ000250_25.0225.C12
Gene No.	60275	Strand	+
Start	1	End	3399
Name	OJ000250_25.0225.C12.o1.np	Method	AAT/NAP
Start	1	End	3399
GI	4680207	Score	437
Exons	1..66, 315..861, 892..2265, 3328..3399		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	29191	Seq. ID	OJ000250_25.0225.C12
Gene No.	60275	Strand	+
Start	1	End	3399
Name	OJ000250_25.0225.C12.o1.tm	Method	TBLASTX:Maize
Start	210	End	619
GI	none	Score	233
Exons	210..593, 221..601, 223..618, 224..619		

Seq. No.	29191	Seq. ID	OJ000250_25.0225.C12
Gene No.	60275	Strand	+
Start	1	End	3399
Name	OJ000250_25.0225.C12.o1.tw	Method	TBLASTX:Wheat
Start	417	End	747
GI	none	Score	175
Exons	417..596, 424..735, 425..745, 475..747		

Seq. No.	29191	Seq. ID	OJ000250_25.0225.C12
Gene No.	60275	Strand	+
Start	1	End	3399
Name	OJ000250_25.0225.C12.o2.tm	Method	TBLASTX:Maize
Start	620	End	973
GI	none	Score	148
Exons	620..766, 623..748, 776..889, 782..862, 866..973, 893..973		

Seq. No.	29191	Seq. ID	OJ000250_25.0225.C12
Gene No.	60275	Strand	+
Start	1	End	3399
Name	OJ000250_25.0225.C12.o3.tm	Method	TBLASTX:Maize
Start	1145	End	1447
GI	none	Score	195
Exons	1145..1447, 1253..1435		

Seq. No.	29192	Seq. ID	OJ000250_25.0225.C13
Gene No.	60276	Strand	-
Start	1045	End	1494
Name	OJ000250_25.0225.C13.o1.gs	Method	GENSCAN
Start	1045	End	1494
GI	none	Score	.44
Exons	1045..1494		

Seq. No.	29193	Seq. ID	OJ000250_25.0225.C14
Gene No.	60277	Strand	-
Start	1	End	731
Name	OJ000250_25.0225.C14.o1.np	Method	AAT/NAP
Start	1	End	731
GI	4680203	Score	193
Exons	1..140, 437..731		

GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	29193	Seq. ID	OJ000250_25.0225.C14
Gene No.	60277	Strand	-
Start	1	End	731
Name	OJ000250_25.0225.C14.o1.tw	Method	TBLASTX:Wheat
Start	272	End	730
GI	none	Score	44
Exons	272..340, 357..443, 444..515, 445..516, 566..619, 619..663, 620..670, 686..730		

Seq. No.	29193	Seq. ID	OJ000250_25.0225.C14
Gene No.	60277	Strand	-
Start	1	End	731
Name	OJ000250_25.0225.C14.o1.gs	Method	GENSCAN
Start	301	End	440
GI	none	Score	.5
Exons	301..440		

Seq. No.	29193	Seq. ID	OJ000250_25.0225.C14
Gene No.	60277	Strand	-
Start	1	End	731
Name	OJ000250_25.0225.C14.o1.ts	Method	TBLASTX:Soybean
Start	387	End	634
GI	none	Score	55
Exons	387..518, 521..634, 528..632		

Seq. No.	29194	Seq. ID	OJ000250_25.0225.C15
Gene No.	60278	Strand	-
Start	19	End	744
Name	OJ000250_25.0225.C15.o1.gs	Method	GENSCAN
Start	19	End	417
GI	none	Score	.92
Exons	19..417		

Seq. No.	29194	Seq. ID	OJ000250_25.0225.C15
Gene No.	60278	Strand	-
Start	19	End	744
Name	OJ000250_25.0225.C15.o1.np	Method	AAT/NAP
Start	22	End	744
GI	6006375	Score	574
Exons	22..744		

GI Descrip. (AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS\_2 (C40785) [Oryza sativa]

Seq. No.	29195	Seq. ID	OJ000250_25.0225.C16
Gene No.	60279	Strand	-
Start	117	End	275
Name	OJ000250_25.0225.C16.o1.gp	Method	AAT/GAP
Start	117	End	275
GI	21413_1.R1084	Score	292
Exons	117..275		
GI Descrip.	'4680207/gb AAD27570.1 AF114171_11 4.0e-20 (AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]'		

Seq. No.	29196	Seq. ID	OJ000250_25.0225.C17
Gene No.	60280	Strand	+

Start	1	End	2370
Name	OJ000250_25.0225.C17.o1.np	Method	AAT/NAP
Start	1	End	2354
GI	6006374	Score	1557
Exons	1..967, 2274..2354		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	29196	Seq. ID	OJ000250_25.0225.C17
Gene No.	60280	Strand	+
Start	1	End	2370
Name	OJ000250_25.0225.C17.o2.np	Method	AAT/NAP
Start	1093	End	2370
GI	5596679	Score	51
Exons	1093..1223, 2346..2370		
GI Descrip.	(X94582) ORF [Dioscorea alata bacilliform virus]		

Seq. No.	29196	Seq. ID	OJ000250_25.0225.C17
Gene No.	60280	Strand	+
Start	1	End	2370
Name	OJ000250_25.0225.C17.o3.np	Method	AAT/NAP
Start	1234	End	1481
GI	862343	Score	170
Exons	1234..1481		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi 1092097 prf  2022314A granule cell marker protein [Mus musculus] gi 1092098 prf  2022315A granule cell marker protein [Mus musculus]		

Seq. No.	29196	Seq. ID	OJ000250_25.0225.C17
Gene No.	60281	Strand	-
Start	1472	End	2202
Name	OJ000250_25.0225.C17.o1.gs	Method	GENSCAN
Start	1472	End	2202
GI	none	Score	.51
Exons	1472..1642, 1981..2111, 2130..2202		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60282	Strand	+
Start	1224	End	3187
Name	OJ000250_25.0225.C18.o1.gs	Method	GENSCAN
Start	1224	End	3187
GI	none	Score	.42
Exons	1224..1284, 3084..3113, 3159..3187		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o1.tm	Method	TBLASTX:Maize
Start	4201	End	4627
GI	none	Score	109
Exons	4201..4266, 4254..4517, 4272..4553, 4273..4539, 4550..4627		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o2.gs	Method	GENSCAN

Start	4245	End	5287
GI	none	Score	.7
Exons	4245..4462, 4646..4973, 5219..5287		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o1.np	Method	AAT/NAP
Start	4299	End	6976
GI	4538896	Score	232
Exons	4299..4633, 6914..6976		
GI Descrip.	(AL049482) putative protein [Arabidopsis thaliana]		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o2.gp	Method	AAT/GAP
Start	4588	End	4983
GI	2311099	Score	638
Exons	4588..4983		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o4.gp	Method	AAT/GAP
Start	5311	End	6765
GI	12972_1.R1084	Score	1424
Exons	5311..5342, 5372..5835, 5924..6210, 6718..6765		
GI Descrip.	'4335771/gb AAD17448  3.0e-40 (AC006284) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o3.gs	Method	GENSCAN
Start	5927	End	6250
GI	none	Score	.85
Exons	5927..6082, 6170..6250		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o2.np	Method	AAT/NAP
Start	5945	End	6976
GI	4335771	Score	179
Exons	5945..6082, 6170..6210, 6718..6766, 6951..6976		
GI Descrip.	(AC006284) unknown protein [Arabidopsis thaliana]		

Seq. No.	29197	Seq. ID	OJ000250_25.0225.C18
Gene No.	60283	Strand	-
Start	4245	End	6976
Name	OJ000250_25.0225.C18.o5.gp	Method	AAT/GAP
Start	6854	End	6976
GI	2311957	Score	216
Exons	6854..6976		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
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Gene No.	60284	Strand	+
Start	4517	End	8252
Name	OJ000250_25.0225.C19.o3.np	Method	AAT/NAP
Start	4517	End	8252
GI	5852180	Score	634
Exons	4517..5347, 8224..8252		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60285	Strand	-
Start	1	End	1001
Name	OJ000250_25.0225.C19.o1.gp	Method	AAT/GAP
Start	1	End	169
GI	2311957	Score	325
Exons	1..169		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60285	Strand	-
Start	1	End	1001
Name	OJ000250_25.0225.C19.o1.np	Method	AAT/NAP
Start	1	End	1001
GI	4335771	Score	372
Exons	1..198, 442..535, 611..689, 783..874, 948..1001		
GI Descrip.	(AC006284) unknown protein [Arabidopsis thaliana]		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60286	Strand	-
Start	1166	End	3819
Name	OJ000250_25.0225.C19.o2.np	Method	AAT/NAP
Start	1166	End	2565
GI	4335759	Score	97
Exons	1166..1389, 2451..2565		
GI Descrip.	(AC006284) unknown protein [Arabidopsis thaliana]		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60286	Strand	-
Start	1166	End	3819
Name	OJ000250_25.0225.C19.o2.gp	Method	AAT/GAP
Start	1430	End	3819
GI	102_3.R1084	Score	1069
Exons	1430..1659, 3500..3819		
GI Descrip.	'5852170/emb AL117265.1 OST17804 2.0e-40 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60287	Strand	-
Start	6505	End	6663
Name	OJ000250_25.0225.C19.o1.tm	Method	TBLASTX:Maize
Start	101	End	990
GI	none	Score	144
Exons	101..199, 102..200, 440..532, 441..533, 445..537, 605..697, 605..688, 782..874, 783..875, 784..879, 784..876, 936..989, 937..990		

Seq. No.	29198	Seq. ID	OJ000250_25.0225.C19
Gene No.	60287	Strand	-
Start	6505	End	6663

Name	OJ000250_25.0225.C19.o4.np	Method	AAT/NAP
Start	6505	End	6663
GI	5852172	Score	65
Exons	6505..6663		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60288	Strand	+
Start	1	End	316
Name	OJ000250_25.0225.C21.o1.np	Method	AAT/NAP
Start	1	End	316
GI	103076	Score	77
Exons	1..45, 225..316		
GI Descrip.	Bkm-like sex-determining region hypothetical protein CS314 - fruit fly (Drosophila melanogaster) (fragment)		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60289	Strand	+
Start	8221	End	8583
Name	OJ000250_25.0225.C21.o2.gs	Method	GENSCAN
Start	8221	End	8583
GI	none	Score	1
Exons	8221..8583		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60290	Strand	+
Start	9040	End	10275
Name	OJ000250_25.0225.C21.o3.gs	Method	GENSCAN
Start	9040	End	10275
GI	none	Score	.78
Exons	9040..9451, 9490..9623, 10087..10275		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60291	Strand	+
Start	11139	End	11573
Name	OJ000250_25.0225.C21.o4.gs	Method	GENSCAN
Start	11139	End	11573
GI	none	Score	1
Exons	11139..11573		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60292	Strand	+
Start	12138	End	16726
Name	OJ000250_25.0225.C21.o2.np	Method	AAT/NAP
Start	12138	End	16406
GI	5042463	Score	139
Exons	12138..12161, 13981..14181, 14844..14990, 15037..15120, 16107..16406		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		
Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60292	Strand	+
Start	12138	End	16726
Name	OJ000250_25.0225.C21.o2.gp	Method	AAT/GAP
Start	15730	End	16133
GI	none	Score	766
Exons	15730..16133		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60292	Strand	+
Start	12138	End	16726
Name	OJ000250_25.0225.C21.o3.np	Method	AAT/NAP
Start	15824	End	16723
GI	4417291	Score	406
Exons	15824..16093, 16172..16348, 16376..16554, 16591..16723		
GI Descrip.	(AC007019) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60292	Strand	+
Start	12138	End	16726
Name	OJ000250_25.0225.C21.o5.gs	Method	GENSCAN
Start	15824	End	16726
GI	none	Score	.49
Exons	15824..16726		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60292	Strand	+
Start	12138	End	16726
Name	OJ000250_25.0225.C21.o3.gp	Method	AAT/GAP
Start	16180	End	16643
GI	76703_1.R1084	Score	816
Exons	16180..16643		
GI Descrip.	'5042177/emb CAB44696.1  6.0e-29 (AL078620) putative protein [Arabidopsis thaliana]'		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60293	Strand	+
Start	18626	End	19984
Name	OJ000250_25.0225.C21.o6.gs	Method	GENSCAN
Start	18626	End	19984
GI	none	Score	.7
Exons	18626..18640, 19492..19576, 19872..19984		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60294	Strand	+
Start	20828	End	22050
Name	OJ000250_25.0225.C21.o4.gp	Method	AAT/GAP
Start	20722	End	22050
GI	none	Score	1155
Exons	20722..20918, 21444..21481, 21661..22050		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60294	Strand	+
Start	20828	End	22050
Name	OJ000250_25.0225.C21.o7.gs	Method	GENSCAN
Start	20828	End	21673
GI	none	Score	.81
Exons	20828..20918, 21444..21481, 21626..21673		

Seq. No.	29199	Seq. ID	OJ000250_25.0225.C21
Gene No.	60295	Strand	-
Start	1038	End	2444
Name	OJ000250_25.0225.C21.o1.gp	Method	AAT/GAP
Start	228	End	305

GI LIB3477-003-P1-K1-E9 Score 114  
 Exons 228..305  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 29199 Seq. ID OJ000250\_25.0225.C21  
 Gene No. 60295 Strand -  
 Start 1038 End 2444  
 Name OJ000250\_25.0225.C21.o1.gs Method GENSCAN  
 Start 1038 End 2444  
 GI none Score .88  
 Exons 1038..1187, 2100..2444

Seq. No. 29199 Seq. ID OJ000250\_25.0225.C21  
 Gene No. 60296 Strand -  
 Start 16138 End 16734  
 Name OJ000250\_25.0225.C21.o1.tm Method TBLASTX:Maize  
 Start 16138 End 16734  
 GI none Score 234  
 Exons 16138..16347, 16139..16348, 16393..16530, 16394..16531,  
 16592..16684, 16609..16710, 16681..16734, 16682..16723

Seq. No. 29199 Seq. ID OJ000250\_25.0225.C21  
 Gene No. 60296 Strand -  
 Start 16138 End 16734  
 Name OJ000250\_25.0225.C21.o1.ts Method TBLASTX:Soybean  
 Start 16394 End 16687  
 GI none Score 127  
 Exons 16394..16531, 16589..16687

Seq. No. 29200 Seq. ID OJ000250\_25.0225.C22  
 Gene No. 60297 Strand -  
 Start 1314 End 4569  
 Name OJ000250\_25.0225.C22.o1.gs Method GENSCAN  
 Start 1314 End 4569  
 GI none Score .71  
 Exons 1314..1622, 1678..1742, 2911..3103, 3180..3303, 3489..3619,  
 3923..4057, 4074..4309, 4335..4569

Seq. No. 29200 Seq. ID OJ000250\_25.0225.C22  
 Gene No. 60298 Strand -  
 Start 4797 End 5505  
 Name OJ000250\_25.0225.C22.o2.gs Method GENSCAN  
 Start 4797 End 5505  
 GI none Score .48  
 Exons 4797..4932, 5429..5505

Seq. No. 29200 Seq. ID OJ000250\_25.0225.C22  
 Gene No. 60299 Strand -  
 Start 6300 End 6824  
 Name OJ000250\_25.0225.C22.o3.gs Method GENSCAN  
 Start 6300 End 6824  
 GI none Score .46  
 Exons 6300..6824

Seq. No. 29200 Seq. ID OJ000250\_25.0225.C22

Gene No.	60300	Strand	-
Start	8309	End	12354
Name	OJ000250_25.0225.C22.o1.tm	Method	TBLASTX:Maize
Start	4298	End	4542
GI	none	Score	140
Exons	4298..4501, 4308..4364, 4342..4542, 4342..4542		

Seq. No.	29200	Seq. ID	OJ000250_25.0225.C22
Gene No.	60300	Strand	-
Start	8309	End	12354
Name	OJ000250_25.0225.C22.o1.tw	Method	TBLASTX:Wheat
Start	4342	End	4551
GI	none	Score	150
Exons	4342..4551, 4342..4548		

Seq. No.	29200	Seq. ID	OJ000250_25.0225.C22
Gene No.	60300	Strand	-
Start	8309	End	12354
Name	OJ000250_25.0225.C22.o4.gs	Method	GENSCAN
Start	8309	End	12354
GI	none	Score	.6
Exons	8309..8743, 10147..10422, 11003..11408, 11693..11990, 12075..12354		

Seq. No.	29201	Seq. ID	OJ000250_25.0225.C23
Gene No.	60301	Strand	-
Start	290	End	982
Name	OJ000250_25.0225.C23.o1.np	Method	AAT/NAP
Start	236	End	982
GI	4680207	Score	228
Exons	236..566, 606..982		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	29201	Seq. ID	OJ000250_25.0225.C23
Gene No.	60301	Strand	-
Start	290	End	982
Name	OJ000250_25.0225.C23.o1.gs	Method	GENSCAN
Start	290	End	922
GI	none	Score	.63
Exons	290..922		

Seq. No.	29201	Seq. ID	OJ000250_25.0225.C23
Gene No.	60301	Strand	-
Start	290	End	982
Name	OJ000250_25.0225.C23.o1.gp	Method	AAT/GAP
Start	352	End	982
GI	21413_1.R1084	Score	940
Exons	352..982		
GI Descrip.	'4680207/gb AAD27570.1 AF114171_11 4.0e-20 (AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]'		

Seq. No.	29201	Seq. ID	OJ000250_25.0225.C23
Gene No.	60301	Strand	-
Start	290	End	982
Name	OJ000250_25.0225.C23.o1.tm	Method	TBLASTX:Maize
Start	603	End	982

GI	none	Score	144
Exons	603..734, 605..859, 605..853, 881..982, 882..974, 890..982		
Seq. No.	29202	Seq. ID	OJ000250_25.0225.C24
Gene No.	60302	Strand	+
Start	551	End	995
Name	OJ000250_25.0225.C24.o1.gs	Method	GENSCAN
Start	551	End	995
GI	none	Score	.53
Exons	551..604, 912..995		
Seq. No.	29202	Seq. ID	OJ000250_25.0225.C24
Gene No.	60303	Strand	-
Start	1	End	1019
Name	OJ000250_25.0225.C24.o1.np	Method	AAT/NAP
Start	1	End	1019
GI	3779021	Score	196
Exons	1..35, 462..1019		
GI Descrip.	(AC005171) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	29202	Seq. ID	OJ000250_25.0225.C24
Gene No.	60303	Strand	-
Start	1	End	1019
Name	OJ000250_25.0225.C24.o1.tm	Method	TBLASTX:Maize
Start	494	End	934
GI	none	Score	88
Exons	494..574, 494..574, 508..579, 578..757, 578..775, 579..776, 750..881, 773..916, 773..934		
Seq. No.	29202	Seq. ID	OJ000250_25.0225.C24
Gene No.	60303	Strand	-
Start	1	End	1019
Name	OJ000250_25.0225.C24.o1.tc	Method	TBLASTX:Cress
Start	521	End	715
GI	none	Score	66
Exons	521..712, 521..715		
Seq. No.	29203	Seq. ID	OJ000250_25.0225.C25
Gene No.	60304	Strand	+
Start	770	End	923
Name	OJ000250_25.0225.C25.o1.gs	Method	GENSCAN
Start	770	End	923
GI	none	Score	.65
Exons	770..923		
Seq. No.	29204	Seq. ID	OJ000250_25.0225.C26
Gene No.	60305	Strand	+
Start	523	End	936
Name	OJ000250_25.0225.C26.o1.gs	Method	GENSCAN
Start	523	End	936
GI	none	Score	.42
Exons	523..687, 904..936		
Seq. No.	29204	Seq. ID	OJ000250_25.0225.C26
Gene No.	60306	Strand	-
Start	157	End	277

Name	OJ000250_25.0225.C26.o1.np	Method	AAT/NAP
Start	157	End	277
GI	6523056	Score	47
Exons	157..277		
GI Descrip.	(AL133314) putative protein [Arabidopsis thaliana]		

Seq. No.	29204	Seq. ID	OJ000250_25.0225.C26
Gene No.	60307	Strand	-
Start	1962	End	2028
Name	OJ000250_25.0225.C26.o2.gs	Method	GENSCAN
Start	1962	End	2028
GI	none	Score	.71
Exons	1962..2028		

Seq. No.	29205	Seq. ID	OJ000250_25.0225.C27
Gene No.	60308	Strand	+
Start	1556	End	1917
Name	OJ000250_25.0225.C27.o1.gs	Method	GENSCAN
Start	1556	End	1917
GI	none	Score	.46
Exons	1556..1681, 1729..1917		

Seq. No.	29205	Seq. ID	OJ000250_25.0225.C27
Gene No.	60309	Strand	-
Start	3020	End	3574
Name	OJ000250_25.0225.C27.o2.gs	Method	GENSCAN
Start	3020	End	3574
GI	none	Score	.65
Exons	3020..3574		

Seq. No.	29206	Seq. ID	OJ000250_25.0225.C28
Gene No.	60310	Strand	+
Start	632	End	1034
Name	OJ000250_25.0225.C28.o1.gs	Method	GENSCAN
Start	632	End	1034
GI	none	Score	.48
Exons	632..734, 748..882, 997..1034		

Seq. No.	29207	Seq. ID	OJ000250_25.0225.C30
Gene No.	60311	Strand	+
Start	60	End	257
Name	OJ000250_25.0225.C30.o1.gs	Method	GENSCAN
Start	60	End	257
GI	none	Score	.55
Exons	60..257		

Seq. No.	29208	Seq. ID	OJ000250_25.0225.C31
Gene No.	60312	Strand	+
Start	55	End	233
Name	OJ000250_25.0225.C31.o1.gs	Method	GENSCAN
Start	55	End	233
GI	none	Score	.9
Exons	55..233		

Seq. No.	29209	Seq. ID	OJ000250_25.0225.C32
Gene No.	60313	Strand	-
Start	1	End	632

Name	OJ000250_25.0225.C32.o1.np	Method	AAT/NAP
Start	1	End	632
GI	2498930	Score	733
Exons	1..404, 572..632		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	29210	Seq. ID	OJ000250_25.0225.C34
Gene No.	60314	Strand	-
Start	345	End	411
Name	OJ000250_25.0225.C34.o1.gs	Method	GENSCAN
Start	345	End	411
GI	none	Score	.75
Exons	345..411		
Seq. No.	29211	Seq. ID	OJ000250_25.0225.C36
Gene No.	60315	Strand	+
Start	1	End	558
Name	OJ000250_25.0225.C36.o1.np	Method	AAT/NAP
Start	1	End	558
GI	4836950	Score	238
Exons	1..53, 239..558		
GI Descrip.	(AC006085) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29211	Seq. ID	OJ000250_25.0225.C36
Gene No.	60316	Strand	-
Start	237	End	558
Name	OJ000250_25.0225.C36.o1.tm	Method	TBLASTX:Maize
Start	236	End	558
GI	none	Score	109
Exons	236..319, 236..307, 238..387, 301..558, 311..556, 322..558		
Seq. No.	29211	Seq. ID	OJ000250_25.0225.C36
Gene No.	60316	Strand	-
Start	237	End	558
Name	OJ000250_25.0225.C36.o1.gp	Method	AAT/GAP
Start	237	End	558
GI	51076 1.R1084	Score	613
Exons	237..558		
GI Descrip.	'3415134 1.0e-45 (AF082024) Phyb1 [Pimpinella brachycarpa]'		
Seq. No.	29212	Seq. ID	OJ000250_25.0225.C37
Gene No.	60317	Strand	-
Start	1595	End	4284
Name	OJ000250_25.0225.C37.o1.gs	Method	GENSCAN
Start	1595	End	4284
GI	none	Score	.81
Exons	1595..2080, 2125..2287, 3681..3884, 4151..4284		
Seq. No.	29212	Seq. ID	OJ000250_25.0225.C37
Gene No.	60318	Strand	-
Start	4814	End	5107
Name	OJ000250_25.0225.C37.o1.tm	Method	TBLASTX:Maize
Start	4814	End	5107
GI	none	Score	108
Exons	4814..4915, 4910..5107, 4911..5099		



Seq. No. 29212  
 Gene No. 60319  
 Start 5186  
 Name OJ000250\_25.0225.C37.o1.tw  
 Start 5186  
 GI none  
 Exons 5186..5422

Seq. ID OJ000250\_25.0225.C37  
 Strand  
 End 5422  
 Method TBLASTX:Wheat  
 End 5422  
 Score 196

Seq. No. 29213  
 Gene No. 60320  
 Start 626  
 Name OJ000250\_25.0225.C38.o1.gs  
 Start 626  
 GI none  
 Exons 626..649

Seq. ID OJ000250\_25.0225.C38  
 Strand -  
 End 649  
 Method GENSCAN  
 End 649  
 Score .67

Seq. No. 29214  
 Gene No. 60321  
 Start 62  
 Name OJ000250\_25.0225.C44.o1.gs  
 Start 62  
 GI none  
 Exons 62..230

Seq. ID OJ000250\_25.0225.C44  
 Strand +  
 End 230  
 Method GENSCAN  
 End 230  
 Score .91

Seq. No. 29215  
 Gene No. 60322  
 Start 1227  
 Name OJ000250\_25.0225.C45.o1.np  
 Start 1227  
 GI 5042463  
 Exons 1227..1379  
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. ID OJ000250\_25.0225.C45  
 Strand +  
 End 1379  
 Method AAT/NAP  
 End 1379  
 Score 84

Seq. No. 29216  
 Gene No. 60323  
 Start 1  
 Name OJ000250\_25.0225.C46.o1.np  
 Start 1  
 GI 6721512  
 Exons 1..44, 663..857  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. ID OJ000250\_25.0225.C46  
 Strand +  
 End 857  
 Method AAT/NAP  
 End 857  
 Score 45

Seq. No. 29216  
 Gene No. 60324  
 Start 154  
 Name OJ000250\_25.0225.C46.o1.gs  
 Start 154  
 GI none  
 Exons 154..256, 919..1004

Seq. ID OJ000250\_25.0225.C46  
 Strand -  
 End 1004  
 Method GENSCAN  
 End 1004  
 Score .98

Seq. No. 29217  
 Gene No. 60325  
 Start 1  
 Name OJ000250\_25.0225.C47.o1.np  
 Start 1  
 GI 4519258  
 Exons 1..211

Seq. ID OJ000250\_25.0225.C47  
 Strand -  
 End 211  
 Method AAT/NAP  
 End 211  
 Score 95

GI Descrip. (AB017914) L-zip+NBS+LRR [Oryza sativa]

Seq. No.	29218	Seq. ID	OJ000250_25.0225.C51
Gene No.	60326	Strand	-
Start	884	End	1065
Name	OJ000250_25.0225.C51.o1.gs	Method	GENSCAN
Start	884	End	1065
GI	none	Score	.56
Exons	884..1065		

Seq. No.	29219	Seq. ID	OJ000250_25.0225.C53
Gene No.	60327	Strand	-
Start	178	End	237
Name	OJ000250_25.0225.C53.o1.gs	Method	GENSCAN
Start	178	End	237
GI	none	Score	.67
Exons	178..237		

Seq. No.	29220	Seq. ID	OJ000250_25.0225.C55
Gene No.	60328	Strand	+
Start	668	End	4016
Name	OJ000250_25.0225.C55.o1.gs	Method	GENSCAN
Start	668	End	4016
GI	none	Score	.42
Exons	668..731, 973..1046, 3579..4016		

Seq. No.	29220	Seq. ID	OJ000250_25.0225.C55
Gene No.	60329	Strand	-
Start	2650	End	6629
Name	OJ000250_25.0225.C55.o1.np	Method	AAT/NAP
Start	2650	End	4951
GI	6721157	Score	99
Exons	2650..2697, 4141..4251, 4682..4951		

GI Descrip. (AC016829) putative GDSL-motif lipase/acylhydrolase [Arabidopsis thaliana]

Seq. No.	29220	Seq. ID	OJ000250_25.0225.C55
Gene No.	60329	Strand	-
Start	2650	End	6629
Name	OJ000250_25.0225.C55.o3.gs	Method	GENSCAN
Start	4469	End	6629
GI	none	Score	.48
Exons	4469..4789, 6548..6629		

Seq. No.	29221	Seq. ID	OJ000250_25.0225.C58
Gene No.	60330	Strand	+
Start	1547	End	2363
Name	OJ000250_25.0225.C58.o1.np	Method	AAT/NAP
Start	1547	End	2363
GI	4680182	Score	217
Exons	1547..2041, 2341..2363		

GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	29221	Seq. ID	OJ000250_25.0225.C58
Gene No.	60330	Strand	+
Start	1547	End	2363
Name	OJ000250_25.0225.C58.o1.gs	Method	GENSCAN

Start 1564  
GI none  
Exons 1564..2349

End 2349  
Score .84

Seq. No. 29221  
Gene No. 60330  
Start 1547  
Name OJ000250\_25.0225.C58.o1.tm  
Start 1643  
GI none  
Exons 1643..1747, 1772..1942

Seq. ID OJ000250\_25.0225.C58  
Strand +  
End 2363  
Method TBLASTX:Maize  
End 1942  
Score 82

Seq. No. 29222  
Gene No. 60331  
Start 1  
Name OJ000250\_25.0225.C59.o1.np  
Start 1  
GI 4680182  
Exons 1..160, 257..734, 2042..2075  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. ID OJ000250\_25.0225.C59  
Strand +  
End 2490  
Method AAT/NAP  
End 2075  
Score 274

Seq. No. 29222  
Gene No. 60331  
Start 1  
Name OJ000250\_25.0225.C59.o1.gs  
Start 53  
GI none  
Exons 53..745, 2002..2176, 2348..2490

Seq. ID OJ000250\_25.0225.C59  
Strand +  
End 2490  
Method GENSCAN  
End 2490  
Score .78

Seq. No. 29222  
Gene No. 60331  
Start 1  
Name OJ000250\_25.0225.C59.o1.gp  
Start 433  
GI LIB3433-034-P1-K1-E6  
Exons 433..889  
GI Descrip. '2832636/emb|CAA16765.1| 7.0e-20 (AL021711) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ000250\_25.0225.C59  
Strand +  
End 2490  
Method AAT/GAP  
End 889  
Score 888

Seq. No. 29222  
Gene No. 60332  
Start 2718  
Name OJ000250\_25.0225.C59.o1.ts  
Start 545  
GI none  
Exons 545..778, 667..777

Seq. ID OJ000250\_25.0225.C59  
Strand -  
End 3125  
Method TBLASTX:Soybean  
End 778  
Score 243

Seq. No. 29222  
Gene No. 60332  
Start 2718  
Name OJ000250\_25.0225.C59.o2.gs  
Start 2718  
GI none  
Exons 2718..2817, 2905..3125

Seq. ID OJ000250\_25.0225.C59  
Strand -  
End 3125  
Method GENSCAN  
End 3125  
Score .54

Seq. No. 29223  
Gene No. 60333

Seq. ID OJ000250\_25.0225.C60  
Strand -

Start 539  
 Name OJ000250\_25.0225.C60.o1.gs  
 Start 539  
 GI none  
 Exons 539..606

End 606  
 Method GENSCAN  
 End 606  
 Score .67

Seq. No. 29224  
 Gene No. 60334  
 Start 24  
 Name OJ000250\_25.0225.C62.o1.gs  
 Start 24  
 GI none  
 Exons 24..96

Seq. ID OJ000250\_25.0225.C62  
 Strand -  
 End 96  
 Method GENSCAN  
 End 96  
 Score .61

Seq. No. 29225  
 Gene No. 60335  
 Start 354  
 Name OJ000250\_25.0225.C63.o1.gs  
 Start 354  
 GI none  
 Exons 354..418, 495..547, 927..1585, 2926..3078

Seq. ID OJ000250\_25.0225.C63  
 Strand +  
 End 3114  
 Method GENSCAN  
 End 3078  
 Score .93

Seq. No. 29225  
 Gene No. 60335  
 Start 354  
 Name OJ000250\_25.0225.C63.o1.gp  
 Start 1407  
 GI 2428351  
 Exons 1407..1585, 2839..3114

Seq. ID OJ000250\_25.0225.C63  
 Strand +  
 End 3114  
 Method AAT/GAP  
 End 3114  
 Score 835

Seq. No. 29226  
 Gene No. 60336  
 Start 163  
 Name OJ000250\_25.0225.C64.o1.gs  
 Start 163  
 GI none  
 Exons 163..256, 377..588

Seq. ID OJ000250\_25.0225.C64  
 Strand +  
 End 588  
 Method GENSCAN  
 End 588  
 Score .84

Seq. No. 29227  
 Gene No. 60337  
 Start 113  
 Name OJ000250\_25.0225.C65.o1.gs  
 Start 113  
 GI none  
 Exons 113..212

Seq. ID OJ000250\_25.0225.C65  
 Strand -  
 End 212  
 Method GENSCAN  
 End 212  
 Score .79

Seq. No. 29228  
 Gene No. 60338  
 Start 292  
 Name OJ000250\_25.0225.C66.o1.np  
 Start 292  
 GI 5302779  
 Exons 292..460

Seq. ID OJ000250\_25.0225.C66  
 Strand -  
 End 460  
 Method AAT/NAP  
 End 460  
 Score 77

GI Descrip. (297337) putative protein [Arabidopsis thaliana]

Seq. No. 29229  
 Gene No. 60339

Seq. ID OJ000250\_25.0225.C68  
 Strand -

Start	143	End	268
Name	OJ000250_25.0225.C68.o1.gs	Method	GENSCAN
Start	143	End	268
GI	none	Score	.6
Exons	143..268		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o1.np	Method	AAT/NAP
Start	1484	End	7229
GI	4455279	Score	1097
Exons	1484..1648, 1682..2015, 3405..3676, 4000..4401, 4441..4947, 6064..6354, 6453..7229		
GI Descrip.	(AL035527) DNA-directed RNA polymerase (EC 2.7.7.6) II second largest chain [Arabidopsis thaliana]		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o1.ts	Method	TBLASTX:Soybean
Start	1499	End	2024
GI	none	Score	108
Exons	1499..1645, 1500..1646, 1715..2017, 1770..2024		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o2.gs	Method	GENSCAN
Start	1502	End	7119
GI	none	Score	.59
Exons	1502..2000, 3405..3676, 4000..4947, 6064..6247, 6453..7119		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o1.tc	Method	TBLASTX:Cress
Start	1511	End	7171
GI	none	Score	165
Exons	1511..1624, 1715..2026, 1767..2018, 3404..3457, 3420..3674, 3512..3673, 3982..4104, 3992..4084, 4096..4209, 4124..4204, 4285..4407, 4310..4408, 4444..4587, 4594..4716, 6061..6243, 6083..6163, 6258..6374, 6277..6339, 6758..6877, 7025..7171		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o3.tm	Method	TBLASTX:Maize
Start	1715	End	3463
GI	none	Score	241
Exons	1715..2035, 1773..2018, 1796..2023, 3404..3463, 3405..3461		
Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o2.np	Method	AAT/NAP
Start	3307	End	7229

GI 6606139 Score 598  
 Exons 3307..3676, 4000..4418, 4458..4947, 6064..6354, 6453..7229  
 GI Descrip. (AF107810) DNA-dependent RNA polymerase II RPB140 [Morchella elata]

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o1.tm Method TBLASTX:Maize  
 Start 3465 End 4449  
 GI none Score 247  
 Exons 3465..3704, 3471..3659, 3512..3703, 3982..4446, 3998..4447, 4012..4449, 4047..4448

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o1.tw Method TBLASTX:Wheat  
 Start 3492 End 3746  
 GI none Score 137  
 Exons 3492..3746, 3512..3676

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o2.ts Method TBLASTX:Soybean  
 Start 3581 End 4257  
 GI none Score 116  
 Exons 3581..3703, 3582..3704, 3584..3706, 3984..4202, 3997..4257, 3998..4213

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o4.ts Method TBLASTX:Soybean  
 Start 4264 End 4497  
 GI none Score 81  
 Exons 4264..4425, 4301..4447, 4444..4497

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o2.tm Method TBLASTX:Maize  
 Start 4452 End 4932  
 GI none Score 109  
 Exons 4452..4694, 4453..4695, 4453..4719, 4454..4696, 4717..4932, 4725..4826, 4726..4932

Seq. No. 29230 Seq. ID OJ000250\_25.0225.C70  
 Gene No. 60340 Strand -  
 Start 1502 End 7229  
 Name OJ000250\_25.0225.C70.o4.tm Method TBLASTX:Maize  
 Start 6060 End 6336  
 GI none Score 74  
 Exons 6060..6161, 6061..6246, 6061..6246, 6208..6336, 6213..6335, 6250..6336

Seq. No.	29230	Seq. ID	OJ000250_25.0225.C70
Gene No.	60340	Strand	-
Start	1502	End	7229
Name	OJ000250_25.0225.C70.o3.ts	Method	TBLASTX:Soybean
Start	6887	End	7177
GI	none	Score	63
Exons	6887..7177, 7092..7169		

Seq. No.	29231	Seq. ID	OJ000250_26.0225.C1
Gene No.	60341	Strand	-
Start	1	End	477
Name	OJ000250_26.0225.C1.o1.np	Method	AAT/NAP
Start	1	End	477
GI	6815072	Score	270
Exons	1..477		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60342	Strand	+
Start	4057	End	4215
Name	OJ000250_26.0225.C2.o2.gp	Method	AAT/GAP
Start	4057	End	4215
GI	6025022	Score	236
Exons	4057..4215		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60343	Strand	+
Start	13125	End	17606
Name	OJ000250_26.0225.C2.o3.gs	Method	GENSCAN
Start	13125	End	17409
GI	none	Score	.93
Exons	13125..13193, 13701..14037, 15344..15370, 15505..15658, 15741..15789, 15870..15984, 16095..16186, 16330..16446, 16789..16886, 17038..17143, 17257..17409		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60343	Strand	+
Start	13125	End	17606
Name	OJ000250_26.0225.C2.o3.gp	Method	AAT/GAP
Start	13895	End	15795
GI	LIB3431-043-P1-K1-H11	Score	917
Exons	13895..14037, 14656..14833, 15344..15370, 15505..15658, 15741..15795		
GI Descrip.	'2146745/pir  S71169 9.0e-53 protein kinase (EC 2.7.1.-) - Arabidopsis thaliana >gi_642132_dbj_BAA08215_ (D45354) protein kinase [Arabidopsis thaliana]'		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60343	Strand	+
Start	13125	End	17606
Name	OJ000250_26.0225.C2.o2.np	Method	AAT/NAP
Start	13927	End	17391
GI	1703200	Score	1224
Exons	13927..14028, 14656..14833, 15344..15370, 15505..15658, 15741..15789, 15870..15984, 16095..16213, 16363..16486, 16606..16670, 16789..16886, 17038..17143, 17257..17391		

GI Descrip. PROTEIN KINASE AFC2 gi|601789 (U16177) protein kinase  
[Arabidopsis thaliana] gi|642130|dbj|BAA08214| (D45353) protein  
kinase [Arabidopsis thaliana] gi|4220516|emb|CAA22989|  
(AL035356) protein kinase (AFC2) [Arabidopsis thaliana]

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60343	Strand	+
Start	13125	End	17606
Name	OJ000250_26.0225.C2.o4.gp	Method	AAT/GAP
Start	17069	End	17606
GI	2317599	Score	794
Exons	17069..17143, 17257..17606		
GI Descrip.	1703199/sp P51566 AFC1_ARATH 4.0e-28 PROTEIN KINASE AFC1 >gi_601787 (U16176) protein kinase [Arabidopsis thaliana]		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60344	Strand	+
Start	19423	End	25370
Name	OJ000250_26.0225.C2.o4.gs	Method	GENSCAN
Start	19423	End	25370
GI	none	Score	.77
Exons	19423..19643, 19751..19873, 20183..20283, 20566..20616, 21172..21549, 22745..22860, 22955..23200, 23709..23789, 23972..24205, 25020..25370		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60344	Strand	+
Start	19423	End	25370
Name	OJ000250_26.0225.C2.o5.gp	Method	AAT/GAP
Start	21139	End	21413
GI	2431380	Score	509
Exons	21139..21413		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60344	Strand	+
Start	19423	End	25370
Name	OJ000250_26.0225.C2.o3.np	Method	AAT/NAP
Start	21379	End	25364
GI	3355474	Score	1407
Exons	21379..21549, 22751..22860, 22955..23200, 23709..23789, 23972..24205, 25020..25364		
GI Descrip.	(AC004218) unknown protein [Arabidopsis thaliana]		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60344	Strand	+
Start	19423	End	25370
Name	OJ000250_26.0225.C2.o6.gp	Method	AAT/GAP
Start	23708	End	24225
GI	700032	Score	652
Exons	23708..23789, 23972..24225		
GI Descrip.	3355474 3.0e-37 (AC004218) unknown protein [Arabidopsis thaliana]		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60345	Strand	+
Start	26075	End	30217
Name	OJ000250_26.0225.C2.o8.gp	Method	AAT/GAP



Start 26070  
GI 2428885  
Exons 26070..26369

End 26369  
Score 596

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60345 Strand +  
Start 26075 End 30217  
Name OJ000250\_26.0225.C2.o5.gs Method GENSCAN  
Start 26075 End 30217  
GI none Score .55  
Exons 26075..26243, 26546..26592, 26822..26918, 28270..28460,  
29007..29189, 29951..30217

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60346 Strand +  
Start 30675 End 33281  
Name OJ000250\_26.0225.C2.o6.gs Method GENSCAN  
Start 30675 End 33281  
GI none Score .68  
Exons 30675..30728, 30746..31026, 31758..31860, 32583..32636,  
32641..32751, 32945..33061, 33153..33281

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60347 Strand -  
Start 1 End 4414  
Name OJ000250\_26.0225.C2.o1.np Method AAT/NAP  
Start 1 End 2120  
GI 4585985 Score 699  
Exons 1..174, 274..750, 982..1521, 2059..2120  
GI Descrip. (AC005287) Hypothetical protein [Arabidopsis thaliana]

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60347 Strand -  
Start 1 End 4414  
Name OJ000250\_26.0225.C2.o1.gs Method GENSCAN  
Start 269 End 4414  
GI none Score .54  
Exons 269..981, 1073..1657, 2091..2153, 2244..2329, 2447..2567,  
2623..2704, 3143..3254, 3410..3573, 3616..4038, 4068..4297,  
4348..4414

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60347 Strand -  
Start 1 End 4414  
Name OJ000250\_26.0225.C2.o1.gp Method AAT/GAP  
Start 2447 End 3316  
GI LIB3475-003-P1-K2-E3 Score 443  
Exons 2447..2487, 2623..2704, 3190..3316  
GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450  
[Arabidopsis thaliana]'

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60348 Strand -  
Start 25256 End 25630  
Name OJ000250\_26.0225.C2.o7.gp Method AAT/GAP  
Start 25256 End 25630  
GI 968994 Score 693

Exons 25256..25630

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60349	Strand	-
Start	29786	End	30185
Name	OJ000250_26.0225.C2.o10.gp	Method	AAT/GAP
Start	29786	End	30185
GI	none	Score	778
Exons	29786..30185		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o5.tm	Method	TBLASTX:Maize
Start	119	End	527
GI	none	Score	60
Exons	119..175, 276..398, 287..394, 396..527, 398..523		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o1.tw	Method	TBLASTX:Wheat
Start	305	End	706
GI	none	Score	135
Exons	305..385, 398..706, 411..605		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o1.tm	Method	TBLASTX:Maize
Start	530	End	1334
GI	none	Score	112
Exons	530..793, 803..1030, 819..911, 833..1030, 1041..1274, 1281..1334		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o2.tc	Method	TBLASTX:Cress
Start	13927	End	17388
GI	none	Score	132
Exons	13927..14034, 13968..14033, 14752..14832, 14760..14828, 15346..15372, 15504..15659, 15510..15653, 15728..15769, 15728..15787, 15741..15770, 15741..15791, 15742..15792, 15855..15983, 15861..15983, 15862..15987, 15863..15985, 15872..15988, 16061..16186, 16089..16184, 16090..16194, 16091..16195, 16327..16491, 16338..16487, 16342..16491, 16604..16669, 16605..16661, 16609..16671, 16763..16843, 16772..16840, 16789..16887, 16806..16886, 17021..17140, 17038..17136, 17251..17385, 17257..17388		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o3.tm	Method	TBLASTX:Maize
Start	15341	End	17615
GI	none	Score	87
Exons	15341..15370, 15500..15550, 15504..15551, 15504..15551,		

15547..15657, 15552..15656, 15555..15659, 15568..15657,  
 15727..15792, 15736..15780, 15740..15793, 15855..15983,  
 15861..15983, 15862..15987, 15863..15988, 15863..15985,  
 16090..16188, 16091..16192, 16091..16189, 16327..16491,  
 16329..16487, 16604..16669, 16605..16661, 16606..16671,  
 16606..16671, 16607..16687, 16760..16885, 16789..16887,  
 16792..16887, 17037..17144, 17038..17142, 17039..17149,  
 17042..17149, 17241..17291, 17251..17475, 17254..17466,  
 17324..17476, 17340..17477, 17438..17608, 17447..17575,  
 17469..17615, 17476..17592, 17496..17609

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o3.ts	Method	TBLASTX:Soybean
Start	16093	End	17391
GI	none	Score	143
Exons	16093..16197, 16094..16195, 16356..16487, 16356..16487, 16357..16491, 16604..16663, 16605..16661, 16609..16674, 16789..16887, 16803..16886, 17039..17068, 17071..17133, 17072..17149, 17251..17391, 17256..17291		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o4.tm	Method	TBLASTX:Maize
Start	21339	End	23200
GI	none	Score	54
Exons	21339..21395, 21447..21479, 21452..21529, 21528..21548, 22741..22863, 22742..22864, 22743..22868, 22744..22860, 22953..23045, 22954..23181, 22955..23179, 23180..23200		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o3.tc	Method	TBLASTX:Cress
Start	22749	End	23121
GI	none	Score	161
Exons	22749..22877, 22750..22860, 22773..22862, 22976..23029, 22994..23086, 23011..23121, 23014..23103		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o2.ts	Method	TBLASTX:Soybean
Start	22749	End	24142
GI	none	Score	153
Exons	22749..22862, 22750..22860, 22766..22861, 22951..23205, 22952..23212, 22955..23200, 22978..23208, 23693..23758, 23708..23803, 23951..24142, 23977..24141		

Seq. No.	29232	Seq. ID	OJ000250_26.0225.C2
Gene No.	60350	Strand	-
Start	33766	End	35345
Name	OJ000250_26.0225.C2.o2.tm	Method	TBLASTX:Maize
Start	23715	End	25371
GI	none	Score	67

Exons 23715..23759, 23717..23788, 23717..23788, 23956..24201,  
23960..24211, 23960..24205, 24994..25197, 25019..25198,  
25020..25370, 25021..25371, 25022..25369, 25273..25371

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345  
Name OJ000250\_26.0225.C2.o1.tc Method TBLASTX:Cress  
Start 24116 End 25361  
GI none Score 55  
Exons 24116..24157, 24158..24211, 25001..25195, 25020..25361,  
25031..25360

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345  
Name OJ000250\_26.0225.C2.o1.ts Method TBLASTX:Soybean  
Start 24143 End 25361  
GI none Score 87  
Exons 24143..24211, 25020..25361, 25029..25328, 25031..25351

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345  
Name OJ000250\_26.0225.C2.o7.gs Method GENSCAN  
Start 33766 End 35337  
GI none Score .81  
Exons 33766..33824, 34061..34184, 34240..34353, 34600..34752,  
35268..35337

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345  
Name OJ000250\_26.0225.C2.o11.gp Method AAT/GAP  
Start 34821 End 35035  
GI uC-osf1M202014d11b1 Score 418  
Exons 34821..35035  
GI Descrip. '2225877/dbj|BAA20875.1| 1.0e-15 (AB002406) TIP49 [Rattus  
norvegicus] >gi\_4106528 (AF100694) Pontin52 [Mus musculus]  
>gi\_4521276\_dbj|BAA76313.1\_ (AB001581) DNA helicase p50 [Rattus  
norvegicus]'

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345  
Name OJ000250\_26.0225.C2.o12.gp Method AAT/GAP  
Start 34876 End 35341  
GI 2798347 Score 535  
Exons 34876..35134, 35268..35341  
GI Descrip. 2225877/dbj|BAA20875.1| 1.0e-15 (AB002406) TIP49 [Rattus  
norvegicus] >gi\_4106528 (AF100694) Pontin52 [Mus musculus]  
>gi\_4521276\_dbj|BAA76313.1\_ (AB001581) DNA helicase p50 [Rattus  
norvegicus]

Seq. No. 29232 Seq. ID OJ000250\_26.0225.C2  
Gene No. 60350 Strand -  
Start 33766 End 35345

Name	OJ000250_26.0225.C2.o13.gp	Method	AAT/GAP
Start	34958	End	35345
GI	2798347	Score	402
Exons	34958..35134, 35268..35345		
GI Descrip.	2225877/dbj BAA20875.1  1.0e-15 (AB002406) TIP49 [Rattus norvegicus] >gi_4106528 (AF100694) Pontin52 [Mus musculus] >gi_4521276_dbj_BAA76313.1_ (AB001581) DNA helicase p50 [Rattus norvegicus]		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60351	Strand	+
Start	3506	End	6812
Name	OJ000250_26.0225.C3.o2.np	Method	AAT/NAP
Start	3506	End	6812
GI	4580390	Score	128
Exons	3506..3638, 5435..5805, 6769..6812		
GI Descrip.	(AC007171) putative disease resistance response protein [Arabidopsis thaliana]		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60351	Strand	+
Start	3506	End	6812
Name	OJ000250_26.0225.C3.o2.gs	Method	GENSCAN
Start	5079	End	5828
GI	none	Score	.69
Exons	5079..5828		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60352	Strand	+
Start	14055	End	14694
Name	OJ000250_26.0225.C3.o6.gs	Method	GENSCAN
Start	14055	End	14694
GI	none	Score	.73
Exons	14055..14157, 14185..14282, 14584..14694		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60353	Strand	+
Start	17548	End	21297
Name	OJ000250_26.0225.C3.o8.gs	Method	GENSCAN
Start	17548	End	20926
GI	none	Score	.88
Exons	17548..17650, 18311..18712, 19489..19901, 20468..20926		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60353	Strand	+
Start	17548	End	21297
Name	OJ000250_26.0225.C3.o4.gp	Method	AAT/GAP
Start	18563	End	19744
GI	LIB3433-042-P1-K1-D10	Score	688
Exons	18563..18712, 19489..19744		
GI Descrip.	'4056491 3.0e-15 (AC005896) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60353	Strand	+
Start	17548	End	21297
Name	OJ000250_26.0225.C3.o6.np	Method	AAT/NAP

Start	18652	End	21297
GI	6682234	Score	1444
Exons	18652..18712, 19489..19901, 20468..21297		
GI Descrip.	(AC016661) putative ankyrin [Arabidopsis thaliana]		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60353	Strand	+
Start	17548	End	21297
Name	OJ000250_26.0225.C3.o5.gp	Method	AAT/GAP
Start	20989	End	21172
GI	6025112	Score	292
Exons	20989..21172		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60354	Strand	-
Start	1	End	3502
Name	OJ000250_26.0225.C3.o1.np	Method	AAT/NAP
Start	1	End	3502
GI	4506753	Score	1068
Exons	1..116, 227..361, 1103..1258, 1580..1729, 1874..2005, 3086..3274, 3422..3502		

GI Descrip. TATA binding protein interacting protein 49 kDa  
gi|3132308|dbj|BAA28169| (AB012122) TIP49 [Homo sapiens]  
gi|3243035 (AF070735) RuvB-like protein RUVBL1 [Homo sapiens]  
gi|3892584|emb|CAA08986| (AJ010058) Nuclear matrix protein  
NMP238 [Homo sapiens] gi|4151525 (AF099084) Pontin52 [Homo  
sapiens] gi|5327000|emb|CAB46271.1| (Y18418) erythrocyte  
cytosolic protein of 54 kDa,

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60354	Strand	-
Start	1	End	3502
Name	OJ000250_26.0225.C3.o1.gs	Method	GENSCAN
Start	51	End	3502
GI	none	Score	.63
Exons	51..116, 227..361, 1103..1258, 1580..1729, 1874..2005, 3086..3367, 3422..3502		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60354	Strand	-
Start	1	End	3502
Name	OJ000250_26.0225.C3.o1.gp	Method	AAT/GAP
Start	1185	End	3215
GI	uC-osf1M202020b08b1	Score	900
Exons	1185..1258, 1580..1729, 1874..2005, 3086..3215		
GI Descrip.	'2497541/sp Q40545 KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi 482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]'		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60355	Strand	-
Start	5998	End	9505
Name	OJ000250_26.0225.C3.o2.gp	Method	AAT/GAP
Start	5998	End	8152
GI	22080_1.R1084	Score	1803
Exons	5998..6507, 6580..6672, 7104..7178, 7274..7357, 7840..7919, 8009..8152		

GI Descrip. '3355471 4.0e-30 (AC004218) putative lysophospholipase  
[Arabidopsis thaliana]'

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60355	Strand	-
Start	5998	End	9505
Name	OJ000250_26.0225.C3.o3.np	Method	AAT/NAP
Start	6304	End	9505
GI	6729503	Score	1300
Exons	6304..6507, 6580..6666, 7104..7178, 7274..7357, 7840..7919, 8009..8156, 8942..9505		

GI Descrip. (AL132966) dTDP-glucose 4-6-dehydratase-like protein  
[Arabidopsis thaliana]

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60355	Strand	-
Start	5998	End	9505
Name	OJ000250_26.0225.C3.o3.gs	Method	GENSCAN
Start	6319	End	8144
GI	none	Score	.84
Exons	6319..6507, 6580..6672, 7104..7178, 7274..7357, 7840..7919, 8009..8144		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60355	Strand	-
Start	5998	End	9505
Name	OJ000250_26.0225.C3.o4.gs	Method	GENSCAN
Start	8906	End	9505
GI	none	Score	1
Exons	8906..9505		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60356	Strand	-
Start	10183	End	13281
Name	OJ000250_26.0225.C3.o5.gs	Method	GENSCAN
Start	10183	End	13250
GI	none	Score	.79
Exons	10183..10211, 10729..10834, 10910..11120, 11224..11355, 11519..11718, 11909..12007, 12091..12228, 12384..12514, 12716..12838, 12934..13027, 13113..13145, 13248..13250		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60356	Strand	-
Start	10183	End	13281
Name	OJ000250_26.0225.C3.o4.np	Method	AAT/NAP
Start	11453	End	13151
GI	3355471	Score	748
Exons	11453..11718, 11909..12007, 12091..12228, 12384..12514, 12586..12732, 12806..12838, 12934..13027, 13113..13151		

GI Descrip. (AC004218) putative phospholipase [Arabidopsis thaliana]

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60356	Strand	-
Start	10183	End	13281
Name	OJ000250_26.0225.C3.o3.gp	Method	AAT/GAP
Start	12627	End	13281
GI	3107745	Score	516

Exons 12627..12732, 12806..12838, 12934..13027, 13113..13145,  
13248..13281  
GI Descrip. 3355471 4.0e-30 (AC004218) putative lysophospholipase  
[Arabidopsis thaliana]

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60357	Strand	-
Start	15197	End	18423
Name	OJ000250_26.0225.C3.o7.gs	Method	GENSCAN
Start	15197	End	16759
GI	none	Score	.91
Exons	15197..15484, 15625..15693, 15928..16549, 16569..16759		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60357	Strand	-
Start	15197	End	18423
Name	OJ000250_26.0225.C3.o5.np	Method	AAT/NAP
Start	15230	End	18423
GI	6682233	Score	951
Exons	15230..15484, 15625..15693, 15928..16490, 16573..16692, 18275..18423		

GI Descrip. (AC016661) putative pectate lyase [Arabidopsis thaliana]

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o6.tm	Method	TBLASTX:Maize
Start	48	End	3578
GI	none	Score	105
Exons	48..116, 49..117, 51..122, 206..367, 225..368, 1065..1259, 1102..1260, 1102..1260, 1103..1261, 1130..1276, 1577..1729, 1578..1730, 1578..1730, 1666..1731, 1871..2011, 1874..2026, 3083..3274, 3084..3290, 3173..3301, 3422..3502, 3423..3578		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o6.ts	Method	TBLASTX:Soybean
Start	48	End	304
GI	none	Score	101
Exons	48..116, 49..117, 51..122, 206..304, 207..302, 223..303		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o8.ts	Method	TBLASTX:Soybean
Start	1577	End	1936
GI	none	Score	146
Exons	1577..1711, 1581..1703, 1706..1729, 1868..1936		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o9.ts	Method	TBLASTX:Soybean
Start	1937	End	3503
GI	none	Score	86
Exons	1937..2011, 1944..2012, 3083..3277, 3084..3290, 3422..3502,		



3423..3503

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o5.tc	Method	TBLASTX:Cress
Start	3083	End	3502
GI	none	Score	150
Exons	3083..3277, 3084..3290, 3422..3502, 3423..3497		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o3.tw	Method	TBLASTX:Wheat
Start	5279	End	9199
GI	none	Score	58
Exons	5279..5383, 7274..7363, 7278..7355, 7831..7920, 7862..7921, 8002..8148, 8007..8156, 8007..8156, 8008..8157, 8940..9128, 8942..9196, 8942..9133, 9095..9199, 9104..9175		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o4.tm	Method	TBLASTX:Maize
Start	6242	End	8139
GI	none	Score	52
Exons	6242..6292, 6244..6294, 6244..6291, 6294..6509, 6309..6509, 6310..6516, 6311..6526, 6562..6672, 6578..6673, 6579..6704, 7098..7178, 7102..7179, 7103..7180, 7104..7181, 7269..7358, 7274..7363, 7278..7358, 7831..7920, 7837..7920, 7838..7924, 8002..8136, 8007..8135, 8011..8139		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o2.tw	Method	TBLASTX:Wheat
Start	6320	End	7160
GI	none	Score	147
Exons	6320..6508, 6322..6516, 6342..6521, 6577..6672, 6578..6673, 7101..7160, 7102..7158		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o4.ts	Method	TBLASTX:Soybean
Start	6320	End	7366
GI	none	Score	166
Exons	6320..6508, 6322..6516, 6562..6672, 6578..6673, 7101..7178, 7102..7179, 7274..7366, 7278..7361		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o1.tc	Method	TBLASTX:Cress
Start	6320	End	9176
GI	none	Score	180
Exons	6320..6508, 6322..6516, 6378..6509, 6562..6672, 6578..6673,		

7101..7178, 7102..7179, 7269..7358, 7274..7363, 7278..7370,  
7831..7920, 7859..7921, 8007..8156, 8008..8148, 8940..9176,  
8942..9175

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o3.ts	Method	TBLASTX:Soybean
Start	8007	End	9199
GI	none	Score	169
Exons	8007..8156, 8008..8148, 8018..8155, 8940..9176, 8942..9199, 8942..9175		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o5.tm	Method	TBLASTX:Maize
Start	8940	End	9515
GI	none	Score	78
Exons	8940..9005, 8942..9025, 8942..9031, 9026..9220, 9032..9175, 9248..9349, 9258..9299, 9314..9424, 9477..9515		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o4.tc	Method	TBLASTX:Cress
Start	11488	End	12234
GI	none	Score	91
Exons	11488..11565, 11544..11714, 11544..11720, 11566..11790, 11582..11716, 11587..11721, 11882..12007, 12109..12234		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o7.ts	Method	TBLASTX:Soybean
Start	11506	End	11722
GI	none	Score	129
Exons	11506..11583, 11563..11721, 11582..11722		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o9.tm	Method	TBLASTX:Maize
Start	11515	End	12007
GI	none	Score	56
Exons	11515..11583, 11524..11583, 11578..11721, 11582..11743, 11592..11735, 11915..12007		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o4.tw	Method	TBLASTX:Wheat
Start	12088	End	12728
GI	none	Score	86
Exons	12088..12234, 12377..12478, 12378..12470, 12381..12503, 12385..12477, 12386..12502, 12416..12511, 12590..12727, 12597..12728		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o5.ts	Method	TBLASTX:Soybean
Start	12088	End	13036
GI	none	Score	146
Exons	12088..12231, 12366..12557, 12382..12519, 12554..12733, 12582..12722, 12932..12961, 12974..13036		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o7.tm	Method	TBLASTX:Maize
Start	12139	End	13015
GI	none	Score	64
Exons	12139..12234, 12142..12231, 12367..12522, 12381..12521, 12575..12733, 12597..12722, 12932..13015		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o3.tc	Method	TBLASTX:Cress
Start	12367	End	13039
GI	none	Score	132
Exons	12367..12519, 12381..12521, 12587..12736, 12588..12731, 12924..13037, 12926..13039		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o2.tm	Method	TBLASTX:Maize
Start	15248	End	16703
GI	none	Score	65
Exons	15248..15346, 15407..15490, 15605..15643, 15661..15696, 15662..15715, 15919..16491, 15935..16162, 16232..16447, 16237..16503, 16292..16492, 16574..16690, 16584..16703		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o1.ts	Method	TBLASTX:Soybean
Start	15410	End	16720
GI	none	Score	142
Exons	15410..15502, 15625..15696, 15925..16155, 15925..16269, 15932..16270, 16276..16491, 16277..16447, 16575..16661, 16577..16720		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o1.tm	Method	TBLASTX:Maize
Start	18571	End	21321
GI	none	Score	64
Exons	18571..18636, 18622..18705, 18649..18705, 18657..18704, 19491..19613, 19605..19907, 19620..19925, 19626..19910, 19644..19880, 19646..19891, 19674..19907, 19710..19910,		

20465..20863, 20467..20862, 20845..21102, 20865..21188,  
20866..21321, 21139..21321

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o2.ts	Method	TBLASTX:Soybean
Start	18571	End	21182
GI	none	Score	70
Exons	18571..18627, 18598..18711, 18667..18705, 19488..19619, 19505..19582, 19572..19778, 19581..19907, 19617..19913, 19620..19916, 19626..19907, 19629..19925, 20458..20853, 20458..20853, 20462..20857, 20492..20857, 20865..20945, 20865..21182, 20866..21177		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o1.tw	Method	TBLASTX:Wheat
Start	20755	End	21352
GI	none	Score	164
Exons	20755..20862, 20756..20863, 20853..21191, 20860..21252, 20863..21252, 21026..21268, 21206..21352, 21253..21351, 21254..21352, 21278..21301		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o2.tc	Method	TBLASTX:Cress
Start	20865	End	21179
GI	none	Score	355
Exons	20865..21179, 20866..21177		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o9.gs	Method	GENSCAN
Start	24071	End	25174
GI	none	Score	.44
Exons	24071..24093, 24474..24565, 24768..25174		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o8.tm	Method	TBLASTX:Maize
Start	24288	End	24578
GI	none	Score	44
Exons	24288..24332, 24291..24329, 24358..24576, 24369..24578, 24375..24578		

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o7.np	Method	AAT/NAP
Start	24396	End	25279
GI	4056491	Score	233
Exons	24396..24701, 24761..25279		

GI Descrip. (AC005896) unknown protein [Arabidopsis thaliana]

Seq. No.	29233	Seq. ID	OJ000250_26.0225.C3
Gene No.	60358	Strand	-
Start	24071	End	25279
Name	OJ000250_26.0225.C3.o3.tm	Method	TBLASTX:Maize
Start	24776	End	25269
GI	none	Score	290
Exons	24776..25078, 24779..25192, 24780..25085, 25094..25267, 25095..25268, 25096..25263, 25180..25269		

Seq. No.	29234	Seq. ID	OJ000250_26.0225.C4
Gene No.	60359	Strand	+
Start	346	End	471
Name	OJ000250_26.0225.C4.o1.gs	Method	GENSCAN
Start	346	End	471
GI	none	Score	.45
Exons	346..471		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60360	Strand	+
Start	95	End	2763
Name	OJ000250_26.0225.C5.o1.gs	Method	GENSCAN
Start	95	End	2763
GI	none	Score	.65
Exons	95..163, 227..508, 548..705, 789..871, 1506..1560, 2253..2333, 2716..2763		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60361	Strand	+
Start	19722	End	21782
Name	OJ000250_26.0225.C5.o3.gs	Method	GENSCAN
Start	19722	End	21782
GI	none	Score	.52
Exons	19722..19748, 19778..19869, 21551..21782		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60361	Strand	+
Start	19722	End	21782
Name	OJ000250_26.0225.C5.o5.gp	Method	AAT/GAP
Start	21143	End	21231
GI	90742_1.R1084	Score	96
Exons	21143..21231		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60362	Strand	+
Start	23380	End	26194
Name	OJ000250_26.0225.C5.o4.gs	Method	GENSCAN
Start	23380	End	26194
GI	none	Score	.41
Exons	23380..23451, 23555..23622, 25191..25334, 25381..25434, 25596..26044, 26133..26194		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60363	Strand	+

Start	29847	End	31198
Name	OJ000250_26.0225.C5.o5.gs	Method	GENSCAN
Start	29847	End	31198
GI	none	Score	.86
Exons	29847..29852, 30747..30920, 30951..31044, 31083..31198		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60364	Strand	+
Start	32269	End	36024
Name	OJ000250_26.0225.C5.o6.gs	Method	GENSCAN
Start	32269	End	35981
GI	none	Score	.76
Exons	32269..32376, 33849..34052, 34306..34465, 35109..35256, 35361..35438, 35870..35981		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60364	Strand	+
Start	32269	End	36024
Name	OJ000250_26.0225.C5.o6.gp	Method	AAT/GAP
Start	33992	End	35934
GI	uC-osf1M202048g08b1	Score	861
Exons	33992..34052, 34306..34465, 35109..35256, 35361..35438, 35870..35934		
GI Descrip.	'3377820 5.0e-42 (AF076275) contains similarity to coatomer zeta chains [Arabidopsis thaliana]'		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60364	Strand	+
Start	32269	End	36024
Name	OJ000250_26.0225.C5.o2.np	Method	AAT/NAP
Start	34297	End	36024
GI	6681338	Score	454
Exons	34297..34465, 35109..35256, 35361..35438, 35870..36024		
GI Descrip.	(AC015985) putative coatomer zeta subunit (zeta-coat protein) [Arabidopsis thaliana] gi 6682256 gb AAF23308.1 AC016661_33 (AC016661) unknown protein [Arabidopsis thaliana]		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60365	Strand	-
Start	5431	End	5995
Name	OJ000250_26.0225.C5.o1.gp	Method	AAT/GAP
Start	5431	End	5995
GI	none	Score	1080
Exons	5431..5995		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60366	Strand	-
Start	8391	End	8486
Name	OJ000250_26.0225.C5.o2.gp	Method	AAT/GAP
Start	8391	End	8486
GI	LIB3477-003-P1-K1-E9	Score	149
Exons	8391..8486		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
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Gene No. 60367  
 Start 11234  
 Name OJ000250\_26.0225.C5.o3.gp  
 Start 11234  
 GI none  
 Exons 11234..11515

Strand -  
 End 11515  
 Method AAT/GAP  
 End 11515  
 Score 529

Seq. No. 29235  
 Gene No. 60368  
 Start 13110  
 Name OJ000250\_26.0225.C5.o4.gp  
 Start 13110  
 GI none  
 Exons 13110..13330

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 13330  
 Method AAT/GAP  
 End 13330  
 Score 374

Seq. No. 29235  
 Gene No. 60369  
 Start 18694  
 Name OJ000250\_26.0225.C5.o1.np  
 Start 18694  
 GI 2346978  
 Exons 18694..18726, 18757..18813, 18844..19035, 19090..19206, 19246..19356

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 19356  
 Method AAT/NAP  
 End 19356  
 Score 229

GI Descrip. (AB006601) ZPT2-14 [Petunia x hybrida]

Seq. No. 29235  
 Gene No. 60370  
 Start 36662  
 Name OJ000250\_26.0225.C5.o4.ts  
 Start 15637  
 GI none  
 Exons 15637..15696, 15699..15743, 16299..16421, 16402..16428, 16417..16518, 16418..16504

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 37719  
 Method TBLASTX:Soybean  
 End 16518  
 Score 35

Seq. No. 29235  
 Gene No. 60370  
 Start 36662  
 Name OJ000250\_26.0225.C5.o5.tm  
 Start 16263  
 GI none  
 Exons 16263..16421, 16273..16419, 16417..16449, 16418..16450, 16444..16473, 16445..16474

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 37719  
 Method TBLASTX:Maize  
 End 16474  
 Score 118

Seq. No. 29235  
 Gene No. 60370  
 Start 36662  
 Name OJ000250\_26.0225.C5.o2.ts  
 Start 18761  
 GI none  
 Exons 18761..18808, 18778..18807, 18910..18981, 18910..18984, 18914..18979, 19090..19182, 19091..19177, 19099..19176

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 37719  
 Method TBLASTX:Soybean  
 End 19182  
 Score 46

Seq. No. 29235  
 Gene No. 60370  
 Start 36662  
 Name OJ000250\_26.0225.C5.o1.tc  
 Start 18910

Seq. ID OJ000250\_26.0225.C5  
 Strand -  
 End 37719  
 Method TBLASTX:Cress  
 End 19198

GI	none	Score	94
Exons	18910..18981, 18914..18982, 19091..19198, 19093..19197		
Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o1.tw	Method	TBLASTX:Wheat
Start	34298	End	35209
GI	none	Score	65
Exons	34298..34390, 34303..34482, 34305..34469, 35111..35146, 35149..35205, 35150..35209		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o3.tm	Method	TBLASTX:Maize
Start	34298	End	36141
GI	none	Score	107
Exons	34298..34459, 34299..34430, 34305..34469, 34306..34470, 34309..34482, 35104..35256, 35111..35257, 35111..35284, 35317..35448, 35323..35439, 35349..35447, 35867..35944, 35870..36013, 35871..35969, 36076..36141		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o3.ts	Method	TBLASTX:Soybean
Start	34303	End	35448
GI	none	Score	217
Exons	34303..34482, 34314..34469, 35106..35234, 35111..35257, 35146..35256, 35307..35438, 35317..35448, 35372..35446		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o2.tc	Method	TBLASTX:Cress
Start	34305	End	35257
GI	none	Score	215
Exons	34305..34469, 34306..34482, 35104..35256, 35111..35257		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o7.gs	Method	GENSCAN
Start	36662	End	37719
GI	none	Score	.85
Exons	36662..37719		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o4.tm	Method	TBLASTX:Maize
Start	36692	End	36944
GI	none	Score	180
Exons	36692..36943, 36750..36944		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
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Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o1.ts	Method	TBLASTX:Soybean
Start	36899	End	37699
GI	none	Score	67
Exons	36899..37084, 37127..37255, 37316..37420, 37436..37567, 37598..37699		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o1.tm	Method	TBLASTX:Maize
Start	36959	End	37310
GI	none	Score	123
Exons	36959..37090, 36960..37094, 37085..37309, 37086..37310, 37092..37310		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o2.tw	Method	TBLASTX:Wheat
Start	36968	End	37582
GI	none	Score	58
Exons	36968..37087, 37115..37255, 37316..37417, 37317..37418, 37436..37582, 37491..37556		

Seq. No.	29235	Seq. ID	OJ000250_26.0225.C5
Gene No.	60370	Strand	-
Start	36662	End	37719
Name	OJ000250_26.0225.C5.o2.tm	Method	TBLASTX:Maize
Start	37352	End	37714
GI	none	Score	249
Exons	37352..37699, 37352..37714, 37356..37709		

Seq. No.	29236	Seq. ID	OJ000250_26.0225.C6
Gene No.	60371	Strand	-
Start	136	End	243
Name	OJ000250_26.0225.C6.o1.gp	Method	AAT/GAP
Start	136	End	243
GI	LIB3477-003-P1-K1-E9	Score	164
Exons	136..243		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	29237	Seq. ID	OJ000250_26.0225.C7
Gene No.	60372	Strand	-
Start	68	End	547
Name	OJ000250_26.0225.C7.o1.gs	Method	GENSCAN
Start	68	End	547
GI	none	Score	.44
Exons	68..139, 515..547		

Seq. No.	29238	Seq. ID	OJ000250_14.0208.C1
Gene No.	60373	Strand	+
Start	6	End	548
Name	OJ000250_14.0208.C1.o1.np	Method	AAT/NAP

Start	6	End	548
GI	2130120	Score	117
Exons	6..183, 279..378, 474..548		
GI Descrip.	cyclin Ib - maize gi 516552 (U10078) cyclin IbZm [Zea mays]		

Seq. No.	29238	Seq. ID	OJ000250_14.0208.C1
Gene No.	60373	Strand	+
Start	6	End	548
Name	OJ000250_14.0208.C1.o1.gs	Method	GENSCAN
Start	60	End	527
GI	none	Score	.91
Exons	60..183, 279..378, 474..527		

Seq. No.	29239	Seq. ID	OJ000250_14.0208.C2
Gene No.	60374	Strand	+
Start	58	End	507
Name	OJ000250_14.0208.C2.o1.gs	Method	GENSCAN
Start	58	End	507
GI	none	Score	.8
Exons	58..116, 441..507		

Seq. No.	29240	Seq. ID	OJ000250_14.0208.C3
Gene No.	60375	Strand	-
Start	68	End	481
Name	OJ000250_14.0208.C3.o1.gs	Method	GENSCAN
Start	68	End	481
GI	none	Score	.5
Exons	68..313, 376..481		

Seq. No.	29241	Seq. ID	OJ000250_14.0208.C7
Gene No.	60376	Strand	+
Start	382	End	701
Name	OJ000250_14.0208.C7.o1.gs	Method	GENSCAN
Start	382	End	701
GI	none	Score	.97
Exons	382..701		

Seq. No.	29242	Seq. ID	OJ000250_14.0208.C8
Gene No.	60377	Strand	-
Start	1	End	456
Name	OJ000250_14.0208.C8.o1.np	Method	AAT/NAP
Start	1	End	456
GI	6498436	Score	341
Exons	1..201, 250..456		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	29243	Seq. ID	OJ000250_14.0208.C9
Gene No.	60378	Strand	+
Start	146	End	665
Name	OJ000250_14.0208.C9.o1.gs	Method	GENSCAN
Start	146	End	665
GI	none	Score	.71
Exons	146..170, 413..546, 548..665		

Seq. No.	29244	Seq. ID	OJ000250_14.0208.C10
Gene No.	60379	Strand	-
Start	743	End	3698

Name	OJ000250_14.0208.C10.o1.gs	Method	GENSCAN
Start	743	End	3698
GI	none	Score	.76
Exons	743..950, 1102..1267, 1318..1536, 3549..3698		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60380	Strand	+
Start	395	End	4729
Name	OJ000250_14.0208.C11.o1.gs	Method	GENSCAN
Start	395	End	3724
GI	none	Score	.74
Exons	395..2231, 2308..2761, 2929..3724		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60380	Strand	+
Start	395	End	4729
Name	OJ000250_14.0208.C11.o1.np	Method	AAT/NAP
Start	812	End	2498
GI	2792220	Score	2285
Exons	812..2498		
GI Descrip.	(AF032688) NBS-LRR type resistance protein [Oryza sativa]		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60380	Strand	+
Start	395	End	4729
Name	OJ000250_14.0208.C11.o2.np	Method	AAT/NAP
Start	1535	End	4729
GI	4234953	Score	496
Exons	1535..3610, 4532..4729		
GI Descrip.	(AF098970) NBS-LRR-like protein cD7 [Phaseolus vulgaris]		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60381	Strand	+
Start	16199	End	20771
Name	OJ000250_14.0208.C11.o4.np	Method	AAT/NAP
Start	16199	End	20771
GI	4680179	Score	6605
Exons	16199..20771		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60382	Strand	-
Start	5697	End	6765
Name	OJ000250_14.0208.C11.o2.gs	Method	GENSCAN
Start	5697	End	6765
GI	none	Score	.71
Exons	5697..5935, 6087..6193, 6686..6765		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60383	Strand	-
Start	8783	End	9474
Name	OJ000250_14.0208.C11.o3.gs	Method	GENSCAN
Start	8783	End	9474
GI	none	Score	.88
Exons	8783..8845, 9388..9474		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11

Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o1.tc	Method	TBLASTX:Cress
Start	983	End	2266
GI	none	Score	107
Exons	983..1144, 1184..1258, 1327..1350, 1329..1352, 1432..1584, 1463..1585, 1592..1753, 2144..2266		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o7.tm	Method	TBLASTX:Maize
Start	986	End	1249
GI	none	Score	157
Exons	986..1135, 988..1131, 1136..1249, 1166..1228		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o3.ts	Method	TBLASTX:Soybean
Start	998	End	1477
GI	none	Score	62
Exons	998..1063, 1067..1477		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o4.tm	Method	TBLASTX:Maize
Start	1373	End	1897
GI	none	Score	355
Exons	1373..1834, 1471..1791, 1853..1897		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o2.ts	Method	TBLASTX:Soybean
Start	1481	End	2272
GI	none	Score	268
Exons	1481..1759, 1483..1752, 1629..1808, 1784..1846, 1835..1951, 1858..1950, 1968..2051, 2083..2262, 2087..2272, 2138..2257		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o11.tm	Method	TBLASTX:Maize
Start	1976	End	2272
GI	none	Score	188
Exons	1976..2272		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o3.np	Method	AAT/NAP
Start	10206	End	12312
CI	6721517	Score	727
Exons	10206..10356, 11838..12312		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o4.gs	Method	GENSCAN
Start	10230	End	10768
GI	none	Score	.97
Exons	10230..10341, 10533..10768		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o5.tw	Method	TBLASTX:Wheat
Start	11845	End	18769
GI	none	Score	71
Exons	11845..12195, 11856..12032, 11903..12157, 18467..18769, 18505..18768		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o3.tm	Method	TBLASTX:Maize
Start	11857	End	18805
GI	none	Score	157
Exons	11857..12192, 12178..12315, 18305..18484, 18470..18805		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o1.ts	Method	TBLASTX:Soybean
Start	11899	End	18754
GI	none	Score	75
Exons	11899..12135, 11908..12267, 11909..12151, 12126..12266, 12190..12267, 12259..12303, 12271..12303, 18359..18391, 18359..18391, 18395..18754, 18398..18472, 18402..18536, 18511..18753		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o9.tw	Method	TBLASTX:Wheat
Start	12196	End	18466
GI	none	Score	65
Exons	12196..12318, 12213..12314, 12223..12321, 18419..18466		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o7.tw	Method	TBLASTX:Wheat
Start	16468	End	16831
GI	none	Score	291
Exons	16468..16572, 16472..16831, 16597..16830		

Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60384	Strand	-
Start	10230	End	18805
Name	OJ000250_14.0208.C11.o10.tm	Method	TBLASTX:Maize

Start 16712  
 GI none  
 Exons 16712..17008, 16729..16899

End 17008  
 Score 198

Seq. No. 29245  
 Gene No. 60384  
 Start 10230  
 Name OJ000250\_14.0208.C11.o8.tm  
 Start 17354  
 GI none  
 Exons 17354..17674

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 18805  
 Method TBLASTX:Maize  
 End 17674  
 Score 209

Seq. No. 29245  
 Gene No. 60384  
 Start 10230  
 Name OJ000250\_14.0208.C11.o8.tw  
 Start 17407  
 GI none  
 Exons 17407..17547, 17408..17761, 17591..17722

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 18805  
 Method TBLASTX:Wheat  
 End 17761  
 Score 268

Seq. No. 29245  
 Gene No. 60384  
 Start 10230  
 Name OJ000250\_14.0208.C11.o4.tw  
 Start 17932  
 GI none  
 Exons 17932..18375, 17936..18418, 17936..18376

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 18805  
 Method TBLASTX:Wheat  
 End 18418  
 Score 542

Seq. No. 29245  
 Gene No. 60384  
 Start 10230  
 Name OJ000250\_14.0208.C11.o6.tm  
 Start 17945  
 GI none  
 Exons 17945..18235, 17947..18018, 18046..18237

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 18805  
 Method TBLASTX:Maize  
 End 18237  
 Score 316

Seq. No. 29245  
 Gene No. 60385  
 Start 18770  
 Name OJ000250\_14.0208.C11.o1.tw  
 Start 18770  
 GI none  
 Exons 18770..19279, 18802..19188

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 19279  
 Method TBLASTX:Wheat  
 End 19279  
 Score 644

Seq. No. 29245  
 Gene No. 60385  
 Start 18770  
 Name OJ000250\_14.0208.C11.o5.ts  
 Start 18779  
 GI none  
 Exons 18779..19021

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 19279  
 Method TBLASTX:Soybean  
 End 19021  
 Score 197

Seq. No. 29245  
 Gene No. 60385  
 Start 18770  
 Name OJ000250\_14.0208.C11.o1.tm  
 Start 18842

Seq. ID OJ000250\_14.0208.C11  
 Strand -  
 End 19279  
 Method TBLASTX:Maize  
 End 19195

GI	none	Score	483
Exons	18842..19195, 18844..19110, 18884..19180		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o3.tw	Method	TBLASTX:Wheat
Start	19283	End	19761
GI	none	Score	540
Exons	19283..19741, 19301..19714, 19378..19725, 19726..19761		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o4.ts	Method	TBLASTX:Soybean
Start	19541	End	19920
GI	none	Score	147
Exons	19541..19753, 19729..19920		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o5.tm	Method	TBLASTX:Maize
Start	19610	End	19899
GI	none	Score	164
Exons	19610..19741, 19679..19723, 19719..19895, 19726..19899		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o2.tw	Method	TBLASTX:Wheat
Start	19768	End	20393
GI	none	Score	345
Exons	19768..20064, 19771..19797, 19824..20063, 20060..20203, 20064..20390, 20070..20393, 20072..20392		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o2.tm	Method	TBLASTX:Maize
Start	19948	End	20534
GI	none	Score	196
Exons	19948..20175, 19954..20064, 19956..20174, 20106..20204, 20108..20203, 20222..20389, 20265..20534, 20273..20533		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o6.tw	Method	TBLASTX:Wheat
Start	20393	End	20726
GI	none	Score	360
Exons	20393..20662, 20394..20726		
Seq. No.	29245	Seq. ID	OJ000250_14.0208.C11
Gene No.	60386	Strand	
Start	19283	End	20779
Name	OJ000250_14.0208.C11.o9.tm	Method	TBLASTX:Maize

Start	20535	End	20779
GI	none	Score	202
Exons	20535..20747, 20567..20656, 20717..20779		

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60387	Strand	+
Start	587	End	4032
Name	OJ000250_14.0208.C12.o1.gs	Method	GENSCAN
Start	587	End	1816
GI	none	Score	.48
Exons	587..836, 1292..1386, 1535..1816		

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60387	Strand	+
Start	587	End	4032
Name	OJ000250_14.0208.C12.o2.np	Method	AAT/NAP
Start	587	End	4032
GI	6815052	Score	1022
Exons	587..740, 822..892, 1166..1287, 1584..1683, 2596..2688, 3505..3643, 3692..4032		

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60388	Strand	-
Start	1	End	239
Name	OJ000250_14.0208.C12.o1.np	Method	AAT/NAP
Start	1	End	239
GI	6721517	Score	220
Exons	1..239		

GI Descrip. (AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60389	Strand	
Start	631	End	1567
Name	OJ000250_14.0208.C12.o2.tw	Method	TBLASTX:Wheat
Start	631	End	1567
GI	none	Score	74
Exons	631..855, 648..854, 855..938, 943..966, 990..1034, 994..1059, 1112..1150, 1239..1283, 1240..1272, 1294..1335, 1350..1391, 1357..1392, 1432..1530, 1445..1531, 1449..1532, 1463..1567		

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60390	Strand	
Start	2899	End	3393
Name	OJ000250_14.0208.C12.o1.tw	Method	TBLASTX:Wheat
Start	2899	End	3393
GI	none	Score	98
Exons	2899..3081, 2950..3090, 3097..3393, 3174..3383		

Seq. No.	29246	Seq. ID	OJ000250_14.0208.C12
Gene No.	60390	Strand	
Start	2899	End	3393
Name	OJ000250_14.0208.C12.o1.ts	Method	TBLASTX:Soybean
Start	2911	End	3291
GI	none	Score	116
Exons	2911..3117, 3100..3291		



Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60391	Strand	+
Start	1228	End	1692
Name	OJ000250_14.0208.C13.o1.gp	Method	AAT/GAP
Start	1228	End	1692
GI	LIB3432-059-P1-K1-D8	Score	750
Exons	1228..1692		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60392	Strand	+
Start	5016	End	8788
Name	OJ000250_14.0208.C13.o4.gs	Method	GENSCAN
Start	5016	End	8746
GI	none	Score	.89
Exons	5016..5874, 6441..6587, 6681..6811, 7219..7487, 8173..8341, 8432..8746		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60392	Strand	+
Start	5016	End	8788
Name	OJ000250_14.0208.C13.o1.np	Method	AAT/NAP
Start	5064	End	8788
GI	4530126	Score	1116
Exons	5064..5878, 6460..6587, 6687..6811, 6952..7162, 7250..7487, 8173..8314, 8432..8788		
GI Descrip.	(AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60393	Strand	+
Start	11413	End	17874
Name	OJ000250_14.0208.C13.o2.gp	Method	AAT/GAP
Start	11390	End	11661
GI	426956	Score	432
Exons	11390..11661		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60393	Strand	+
Start	11413	End	17874
Name	OJ000250_14.0208.C13.o5.gs	Method	GENSCAN
Start	11413	End	17626
GI	none	Score	.76
Exons	11413..11942, 12891..13008, 13143..13176, 13881..13978, 14222..14312, 14841..15206, 15600..15723, 15819..15918, 16014..16241, 16332..16457, 16508..16792, 16906..17064, 17167..17345, 17494..17626		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60393	Strand	+
Start	11413	End	17874
Name	OJ000250_14.0208.C13.o2.np	Method	AAT/NAP
Start	15155	End	17635
GI	2130120	Score	1000
Exons	15155..15206, 15600..15723, 15819..15918, 16014..16241, 16332..16457, 16544..16792, 16906..17064, 17164..17345,		

17494..17635  
GI Descrip. cyclin Ib - maize gi|516552 (U10078) cyclin IbZm [Zea mays]

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60393 Strand +  
Start 11413 End 17874  
Name OJ000250\_14.0208.C13.o3.gp Method AAT/GAP  
Start 16576 End 17217  
GI uC-osroM202033b11b1 Score 760  
Exons 16576..16792, 16906..17064, 17167..17217  
GI Descrip. '2130119/pir||A57742 1.0e-48 cyclin Ia - maize'

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60393 Strand +  
Start 11413 End 17874  
Name OJ000250\_14.0208.C13.o4.gp Method AAT/GAP  
Start 17288 End 17874  
GI uC-osroM202033b11a1 Score 854  
Exons 17288..17345, 17494..17874  
GI Descrip. '4558659/gb|AAD22677.1|AC007063\_3 1.0e-16 (AC007063) unknown protein [Arabidopsis thaliana]'

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60394 Strand +  
Start 20999 End 24761  
Name OJ000250\_14.0208.C13.o7.gs Method GENSCAN  
Start 20999 End 24761  
GI none Score .8  
Exons 20999..21198, 21305..21578, 22635..22730, 24278..24557, 24607..24761

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60395 Strand +  
Start 26474 End 31813  
Name OJ000250\_14.0208.C13.o8.gs Method GENSCAN  
Start 26474 End 31029  
GI none Score .87  
Exons 26474..26536, 28549..28656, 28868..29079, 29698..29814, 29911..30328, 30411..30819, 30938..31029

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60395 Strand +  
Start 26474 End 31813  
Name OJ000250\_14.0208.C13.o4.np Method AAT/NAP  
Start 28871 End 31813  
GI 2598575 Score 1002  
Exons 28871..29079, 29243..29305, 29698..29814, 29911..30328, 30411..30635, 31651..31813  
GI Descrip. (Y15293) MtN21 [Medicago truncatula]

Seq. No. 29247 Seq. ID OJ000250\_14.0208.C13  
Gene No. 60395 Strand +  
Start 26474 End 31813  
Name OJ000250\_14.0208.C13.o5.gp Method AAT/GAP  
Start 30188 End 30839  
GI 17533\_1.R1084 Score 951  
Exons 30188..30328, 30411..30839

GI Descrip. '2598575/emb|CAA75575| 3.0e-31 (Y15293) MtN21 [Medicago truncatula]'

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60396	Strand	-
Start	88	End	2055
Name	OJ000250_14.0208.C13.o1.gs	Method	GENSCAN
Start	88	End	2055
GI	none	Score	.67
Exons	88..192, 272..388, 1736..2055		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60397	Strand	-
Start	2594	End	2950
Name	OJ000250_14.0208.C13.o2.gs	Method	GENSCAN
Start	2594	End	2950
GI	none	Score	.74
Exons	2594..2950		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o5.ts	Method	TBLASTX:Soybean
Start	5343	End	5798
GI	none	Score	82
Exons	5343..5453, 5484..5798, 5519..5782		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o3.tc	Method	TBLASTX:Cress
Start	5427	End	8640
GI	none	Score	62
Exons	5427..5471, 5562..5795, 6677..6811, 6715..6798, 6949..7161, 6951..7160, 7049..7174, 7249..7485, 7274..7489, 7274..7405, 7291..7488, 8177..8302, 8179..8268, 8438..8617, 8518..8640		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o3.ts	Method	TBLASTX:Soybean
Start	6695	End	8640
GI	none	Score	125
Exons	6695..6811, 6715..6798, 6949..7161, 6951..7148, 7249..7485, 7291..7425, 7359..7487, 8173..8268, 8174..8296, 8435..8617, 8506..8640		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o1.tw	Method	TBLASTX:Wheat
Start	6949	End	7362
GI	none	Score	242
Exons	6949..7170, 6951..7169, 7249..7362		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-

Start	18378	End	19858
Name	OJ000250_14.0208.C13.o2.tm	Method	TBLASTX:Maize
Start	6949	End	7485
GI	none	Score	227
Exons	6949..7161, 6949..7161, 7028..7162, 7235..7441, 7249..7485, 7294..7431, 7356..7484		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o2.ts	Method	TBLASTX:Soybean
Start	15844	End	17611
GI	none	Score	87
Exons	15844..15924, 16191..16247, 16286..16447, 16335..16457, 16535..16795, 16546..16797, 16903..17109, 16905..17045, 17164..17343, 17232..17357, 17495..17611		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o1.tm	Method	TBLASTX:Maize
Start	16335	End	17620
GI	none	Score	142
Exons	16335..16469, 16535..16846, 16546..16794, 16903..17073, 16903..17046, 16905..17048, 17164..17340, 17165..17206, 17169..17336, 17278..17340, 17495..17533, 17531..17620, 17536..17610		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o1.tc	Method	TBLASTX:Cress
Start	16359	End	17596
GI	none	Score	100
Exons	16359..16457, 16555..16794, 16556..16813, 16905..17048, 16906..17064, 16930..17064, 17169..17279, 17170..17343, 17495..17596		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o6.gs	Method	GENSCAN
Start	18378	End	19858
GI	none	Score	1
Exons	18378..19282, 19357..19858		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o3.np	Method	AAT/NAP
Start	18384	End	19858
GI	3150406	Score	798
Exons	18384..19282, 19346..19858		
GI Descrip.	(AC004165) putative glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-

Start	18378	End	19858
Name	OJ000250_14.0208.C13.o4.ts	Method	TBLASTX:Soybean
Start	18624	End	19588
GI	none	Score	152
Exons	18624..18995, 18670..18810, 18922..18972, 19038..19208, 19385..19483, 19538..19588		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o3.tw	Method	TBLASTX:Wheat
Start	18627	End	18986
GI	none	Score	110
Exons	18627..18818, 18631..18810, 18831..18986, 18855..18983		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o4.tc	Method	TBLASTX:Cress
Start	18630	End	18992
GI	none	Score	75
Exons	18630..18815, 18637..18786, 18840..18992, 18859..18972		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o4.tm	Method	TBLASTX:Maize
Start	18630	End	18995
GI	none	Score	178
Exons	18630..18812, 18634..18804, 18843..18995, 18862..18972		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o5.tc	Method	TBLASTX:Cress
Start	19379	End	19841
GI	none	Score	66
Exons	19379..19477, 19538..19648, 19748..19825, 19770..19841		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60398	Strand	-
Start	18378	End	19858
Name	OJ000250_14.0208.C13.o6.tm	Method	TBLASTX:Maize
Start	19535	End	19832
GI	none	Score	95
Exons	19535..19648, 19572..19649, 19718..19831, 19764..19832		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	-
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o6.ts	Method	TBLASTX:Soybean
Start	28873	End	29291
GI	none	Score	88
Exons	28873..29088, 28888..29004, 28895..29080, 29238..29291		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	-

Start	28873	End	30665
Name	OJ000250_14.0208.C13.o7.tm	Method	TBLASTX:Maize
Start	28876	End	29325
GI	none	Score	301
Exons	28876..29088, 28877..29080, 29237..29317, 29238..29291, 29242..29325		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o6.tc	Method	TBLASTX:Cress
Start	28897	End	29285
GI	none	Score	213
Exons	28897..29088, 28898..29080, 29238..29285		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o2.tw	Method	TBLASTX:Wheat
Start	28907	End	29815
GI	none	Score	266
Exons	28907..29080, 28918..29076, 29666..29815, 29672..29815		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o4.tw	Method	TBLASTX:Wheat
Start	29240	End	30040
GI	none	Score	59
Exons	29240..29317, 29246..29314, 29908..30033, 29909..30040		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o3.tm	Method	TBLASTX:Maize
Start	29678	End	30189
GI	none	Score	200
Exons	29678..29815, 29698..29814, 29699..29815, 29899..30033, 29900..30028, 29908..30033, 30085..30123, 30086..30124, 30125..30187, 30127..30189, 30127..30189		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o2.tc	Method	TBLASTX:Cress
Start	29696	End	30554
GI	none	Score	140
Exons	29696..29815, 29698..29814, 29902..30018, 29909..30019, 30098..30265, 30142..30264, 30274..30336, 30275..30328, 30411..30554		
Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o1.ts	Method	TBLASTX:Soybean
Start	29732	End	30644
GI	none	Score	113

Exons 29732..29815, 29734..29805, 29899..30039, 29900..30040,  
30094..30186, 30095..30187, 30194..30265, 30274..30339,  
30275..30328, 30410..30556, 30411..30644

Seq. No.	29247	Seq. ID	OJ000250_14.0208.C13
Gene No.	60399	Strand	
Start	28873	End	30665
Name	OJ000250_14.0208.C13.o5.tm	Method	TBLASTX:Maize
Start	30271	End	30665
GI	none	Score	89
Exons	30271..30339, 30272..30328, 30410..30664, 30411..30665		

Seq. No.	29248	Seq. ID	OJ000250_14.0208.C14
Gene No.	60400	Strand	+
Start	103	End	257
Name	OJ000250_14.0208.C14.o1.gs	Method	GENSCAN
Start	103	End	257
GI	none	Score	.61
Exons	103..147, 168..257		

Seq. No.	29248	Seq. ID	OJ000250_14.0208.C14
Gene No.	60401	Strand	-
Start	1	End	3563
Name	OJ000250_14.0208.C14.o1.np	Method	AAT/NAP
Start	1	End	2533
GI	2130120	Score	151
Exons	1..40, 1518..1596, 1687..1916, 2004..2099, 2381..2533		
GI Descrip.	cyclin Ib - maize gi 516552 (U10078) cyclin IbZm [Zea mays]		

Seq. No.	29248	Seq. ID	OJ000250_14.0208.C14
Gene No.	60401	Strand	-
Start	1	End	3563
Name	OJ000250_14.0208.C14.o2.gs	Method	GENSCAN
Start	1067	End	3563
GI	none	Score	.72
Exons	1067..1446, 1518..1596, 1687..1916, 2004..2103, 2261..2304, 2398..2535, 2975..3027, 3256..3563		

Seq. No.	29249	Seq. ID	OJ000250_14.0208.C15
Gene No.	60402	Strand	-
Start	972	End	4150
Name	OJ000250_14.0208.C15.o1.gs	Method	GENSCAN
Start	972	End	4150
GI	none	Score	.51
Exons	972..1172, 1405..1540, 3523..3607, 4034..4150		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60403	Strand	+
Start	1	End	3569
Name	OJ000250_14.0208.C16.o1.np	Method	AAT/NAP
Start	1	End	3526
GI	5915857	Score	2142
Exons	1..330, 1914..2304, 2882..3526		
GI Descrip.	CYTOCHROME P450 98A1 gi 2766448 (AF029856) cytochrome P450 CYP98A1 [Sorghum bicolor]		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
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Gene No. 60403 Strand +  
 Start 1 End 3569  
 Name OJ000250\_14.0208.C16.o1.gp Method AAT/GAP  
 Start 1 End 241  
 GI uC-osflcyp177d08b1 Score 458  
 Exons 1..241  
 GI Descrip. '5915857/sp|O48956|C981\_SORBI 2.0e-50 CYTOCHROME P450 98A1  
 >gi\_2766448 (AF029856) cytochrome P450 CYP98A1 [Sorghum  
 bicolor]'

Seq. No. 29250 Seq. ID OJ000250\_14.0208.C16  
 Gene No. 60403 Strand +  
 Start 1 End 3569  
 Name OJ000250\_14.0208.C16.o1.gs Method GENSCAN  
 Start 77 End 3529  
 GI none Score .98  
 Exons 77..326, 1910..2304, 2882..3529

Seq. No. 29250 Seq. ID OJ000250\_14.0208.C16  
 Gene No. 60403 Strand +  
 Start 1 End 3569  
 Name OJ000250\_14.0208.C16.o2.gp Method AAT/GAP  
 Start 251 End 3569  
 GI 15665\_2.R1084 Score 2235  
 Exons 251..326, 1910..2304, 2882..3569  
 GI Descrip. '5915857/sp|O48956|C981\_SORBI 0.0e+00 CYTOCHROME P450 98A1  
 >gi\_2766448 (AF029856) cytochrome P450 CYP98A1 [Sorghum  
 bicolor]'

Seq. No. 29250 Seq. ID OJ000250\_14.0208.C16  
 Gene No. 60404 Strand +  
 Start 4760 End 8746  
 Name OJ000250\_14.0208.C16.o5.gp Method AAT/GAP  
 Start 4667 End 8520  
 GI 83907\_1.R1084 Score 1201  
 Exons 4667..4792, 6080..6152, 7415..7508, 7797..7910, 7994..8042,  
 8237..8520  
 GI Descrip. '1491710/emb|CAA65358| 5.0e-14 (X96506) alpha subunit; forms  
 heterodimer with NC2 alpha/Dr1 [Homo sapiens]'

Seq. No. 29250 Seq. ID OJ000250\_14.0208.C16  
 Gene No. 60404 Strand +  
 Start 4760 End 8746  
 Name OJ000250\_14.0208.C16.o2.gs Method GENSCAN  
 Start 4760 End 8746  
 GI none Score .74  
 Exons 4760..4792, 6080..6152, 7415..7508, 7797..7910, 8320..8746

Seq. No. 29250 Seq. ID OJ000250\_14.0208.C16  
 Gene No. 60405 Strand -  
 Start 9194 End 10406  
 Name OJ000250\_14.0208.C16.o6.gp Method AAT/GAP  
 Start 9194 End 10402  
 GI 541\_1.R1084 Score 1244  
 Exons 9194..9391, 9525..9721, 10146..10402  
 GI Descrip. '118171/sp|P20907|CYT2\_ORYSA 4.0e-38 CYSTEINE PROTEINASE  
 INHIBITOR-II (ORYZACYSTATIN-II) >gi\_100692\_pir\_A38375



oryzacystatin II - rice >gi\_169803 (J05595) oryzacystatin-II  
[Oryza sativa]'

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60405	Strand	-
Start	9194	End	10406
Name	OJ000250_14.0208.C16.o3.gs	Method	GENSCAN
Start	9527	End	10406
GI	none	Score	.94
Exons	9527..9721, 10146..10406		
Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60405	Strand	-
Start	9194	End	10406
Name	OJ000250_14.0208.C16.o2.np	Method	AAT/NAP
Start	9530	End	10277
GI	118171	Score	475
Exons	9530..9721, 10146..10277		
GI Descrip.	CYSTEINE PROTEINASE INHIBITOR-II (ORYZACYSTATIN-II) gi 100692 pir  A38375 oryzacystatin II - rice gi 169803 (J05595) oryzacystatin-II [Oryza sativa]		
Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	3649
GI	none	Score	409
Exons	1..243, 2..265, 239..349, 280..333, 1907..2164, 1909..2304, 1912..2304, 1926..2306, 2178..2306, 2880..2939, 2881..3528, 2882..3529, 3537..3560, 3581..3649, 3617..3643		
Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o1.tw	Method	TBLASTX:Wheat
Start	1	End	243
GI	none	Score	385
Exons	1..237, 2..238, 166..243		
Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o1.ts	Method	TBLASTX:Soybean
Start	1	End	3487
GI	none	Score	438
Exons	1..303, 2..319, 1921..2220, 1926..2099, 1936..2220, 2181..2231, 2209..2304, 2217..2306, 2217..2306, 2881..3465, 2882..3487		
Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o2.tc	Method	TBLASTX:Cress
Start	2	End	2244
GI	none	Score	450
Exons	2..325, 16..369, 1873..2217, 1932..2207, 1936..2220, 2209..2244, 2214..2243		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o1.tc	Method	TBLASTX:Cress
Start	2251	End	3481
GI	none	Score	81
Exons	2251..2304, 2881..2955, 2882..2995, 2966..3148, 3019..3138, 3112..3408, 3149..3430, 3410..3481		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o2.tw	Method	TBLASTX:Wheat
Start	2882	End	3181
GI	none	Score	245
Exons	2882..3181, 2893..2955, 3044..3175		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o3.tw	Method	TBLASTX:Wheat
Start	3214	End	3450
GI	none	Score	208
Exons	3214..3330, 3215..3439, 3370..3450		

Seq. No.	29250	Seq. ID	OJ000250_14.0208.C16
Gene No.	60406	Strand	-
Start	10983	End	11474
Name	OJ000250_14.0208.C16.o4.gs	Method	GENSCAN
Start	10983	End	11474
GI	none	Score	.68
Exons	10983..11474		

Seq. No.	29251	Seq. ID	OJ000250_14.0208.C18
Gene No.	60407	Strand	+
Start	1	End	150
Name	OJ000250_14.0208.C18.o1.np	Method	AAT/NAP
Start	1	End	150
GI	4234955	Score	93
Exons	1..150		
GI Descrip.	(AF098971) NBS-LRR-like protein cD8 [Phaseolus vulgaris]		

Seq. No.	29252	Seq. ID	OJ000250_14.0208.C20
Gene No.	60408	Strand	-
Start	1	End	224
Name	OJ000250_14.0208.C20.o1.gp	Method	AAT/GAP
Start	1	End	224
GI	83907_1.R1084	Score	223
Exons	1..27, 111..224		
GI Descrip.	'1491710/emb CAA65358  5.0e-14 (X96506) alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]'		

Seq. No.	29252	Seq. ID	OJ000250_14.0208.C20
Gene No.	60408	Strand	-
Start	1	End	224
Name	OJ000250_14.0208.C20.o1.gs	Method	GENSCAN

Start 111  
GI none  
Exons 111..224

End 224  
Score .9

Seq. No. 29253                      Seq. ID OJ000250\_14.0208.C22  
Gene No. 60409                      Strand +  
Start 1                              End 493  
Name OJ000250\_14.0208.C22.o1.np      Method AAT/NAP  
Start 1                              End 493  
GI 4680179                          Score 127  
Exons 1..36, 182..493  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 29254                      Seq. ID OJ000250\_14.0208.C25  
Gene No. 60410                      Strand -  
Start 166                            End 245  
Name OJ000250\_14.0208.C25.o1.gs      Method GENSCAN  
Start 166                            End 245  
GI none                              Score .64  
Exons 166..245

Seq. No. 29255                      Seq. ID OJ000250\_10.0209.C1  
Gene No. 60411                      Strand +  
Start 1                              End 706  
Name OJ000250\_10.0209.C1.o1.np      Method AAT/NAP  
Start 1                              End 279  
GI 1657541                          Score 204  
Exons 1..279  
GI Descrip. (U73857) lac repressor [Escherichia coli]

Seq. No. 29255                      Seq. ID OJ000250\_10.0209.C1  
Gene No. 60411                      Strand +  
Start 1                              End 706  
Name OJ000250\_10.0209.C1.o2.np      Method AAT/NAP  
Start 1                              End 703  
GI 6523070                          Score 134  
Exons 1..68, 462..703  
GI Descrip. (AL133314) glucosyltransferase-like protein [Arabidopsis thaliana]

Seq. No. 29255                      Seq. ID OJ000250\_10.0209.C1  
Gene No. 60411                      Strand +  
Start 1                              End 706  
Name OJ000250\_10.0209.C1.o1.gs      Method GENSCAN  
Start 470                            End 706  
GI none                              Score .7  
Exons 470..706

Seq. No. 29255                      Seq. ID OJ000250\_10.0209.C1  
Gene No. 60412                      Strand -  
Start 1286                           End 6411  
Name OJ000250\_10.0209.C1.o2.gs      Method GENSCAN  
Start 1286                           End 6411  
GI none                              Score .64  
Exons 1286..1531, 1800..1964, 2045..2309, 3485..3564, 3731..3829, 4067..4324, 4761..4933, 5672..5808, 6305..6411

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60413	Strand	+
Start	407	End	607
Name	OJ000250_10.0209.C2.o1.gs	Method	GENSCAN
Start	407	End	607
GI	none	Score	.65
Exons	407..506, 600..607		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60414	Strand	+
Start	6642	End	23257
Name	OJ000250_10.0209.C2.o1.np	Method	AAT/NAP
Start	6642	End	23254
GI	6633851	Score	1160
Exons	6642..6743, 19564..20068, 20611..20744, 20830..20935, 21395..21480, 21552..21692, 22036..22158, 22711..22827, 23015..23254		

GI Descrip. (AC008047) F2K11.13 [Arabidopsis thaliana]

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60414	Strand	+
Start	6642	End	23257
Name	OJ000250_10.0209.C2.o4.gs	Method	GENSCAN
Start	11959	End	15338
GI	none	Score	.64
Exons	11959..12002, 12188..12491, 12564..12774, 12915..13014, 13106..13264, 13583..13689, 15211..15338		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60414	Strand	+
Start	6642	End	23257
Name	OJ000250_10.0209.C2.o1.gp	Method	AAT/GAP
Start	13920	End	14000
GI	90742_1.R1084	Score	97
Exons	13920..14000		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60414	Strand	+
Start	6642	End	23257
Name	OJ000250_10.0209.C2.o6.gs	Method	GENSCAN
Start	18971	End	23257
GI	none	Score	.85
Exons	18971..19037, 19614..19840, 19933..20068, 20611..20744, 20830..20935, 21395..21480, 21552..21704, 21997..22158, 22711..22827, 23015..23257		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60414	Strand	+
Start	6642	End	23257
Name	OJ000250_10.0209.C2.o2.gp	Method	AAT/GAP
Start	19950	End	21468
GI	uC-osflM202061b01b1	Score	685
Exons	19950..20068, 20611..20744, 20830..20935, 21395..21468		
GI Descrip.	'3080427/emb CAA18746.1  8.0e-54 (AL022604) putative protein [Arabidopsis thaliana]'		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60415	Strand	+
Start	26726	End	28818
Name	OJ000250_10.0209.C2.o7.gs	Method	GENSCAN
Start	26726	End	28818
GI	none	Score	.93
Exons	26726..27136, 27615..27793, 28284..28605, 28738..28818		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60416	Strand	+
Start	28779	End	29787
Name	OJ000250_10.0209.C2.o3.gp	Method	AAT/GAP
Start	28779	End	29787
GI	2799330	Score	518
Exons	28779..28830, 29442..29573, 29673..29787		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o11.gs	Method	GENSCAN
Start	35212	End	42954
GI	none	Score	.95
Exons	35212..35297, 35369..35671, 37270..37380, 37789..37871, 38079..38196, 38295..38506, 38959..39443, 39523..39593, 39985..40241, 40612..40766, 41145..41428, 41517..41634, 42366..42548, 42640..42954		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o4.gp	Method	AAT/GAP
Start	35605	End	39098
GI	5607636	Score	1344
Exons	35605..35671, 37270..37380, 37789..37871, 38079..38196, 38295..38506, 38959..39098		
GI Descrip.	5923674/gb AAD56325.1 AC009326_12 4.0e-79 (AC009326) unknown protein [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o4.np	Method	AAT/NAP
Start	37142	End	42954
GI	5923674	Score	2585
Exons	37142..37380, 37789..37871, 38079..38196, 38295..38590, 38912..39443, 39523..39593, 39985..40241, 40612..40794, 41146..41428, 41517..41645, 42346..42548, 42640..42954		
GI Descrip.	(AC009326) unknown protein [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o5.gp	Method	AAT/GAP
Start	39250	End	40147
GI	LIB3431-029-P1-K1-D10	Score	756
Exons	39250..39443, 39523..39593, 39985..40147		

GI Descrip. '5923674/gb|AAD56325.1|AC009326\_12 4.0e-79 (AC009326) unknown protein [Arabidopsis thaliana]'

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o6.gp	Method	AAT/GAP
Start	40210	End	41335
GI	426223	Score	754
Exons	40210..40241, 40612..40793, 41145..41335		
GI Descrip.	5923674/gb AAD56325.1 AC009326_12 2.0e-54 (AC009326) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60417	Strand	+
Start	35212	End	43281
Name	OJ000250_10.0209.C2.o7.gp	Method	AAT/GAP
Start	41494	End	43281
GI	1813 1.R1084	Score	1713
Exons	41494..41634, 42366..42548, 42640..43281		
GI Descrip.	'5923674/gb AAD56325.1 AC009326_12 5.0e-65 (AC009326) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60418	Strand	+
Start	52966	End	53089
Name	OJ000250_10.0209.C2.o6.np	Method	AAT/NAP
Start	52966	End	53089
GI	5852093	Score	61
Exons	52966..53089		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60419	Strand	-
Start	1589	End	5976
Name	OJ000250_10.0209.C2.o2.gs	Method	GENSCAN
Start	1589	End	5976
GI	none	Score	.87
Exons	1589..1834, 2063..2227, 2348..2633, 4069..4286, 4478..4735, 5179..5352, 5656..5976		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60420	Strand	-
Start	6674	End	8877
Name	OJ000250_10.0209.C2.o3.gs	Method	GENSCAN
Start	6674	End	8877
GI	none	Score	.83
Exons	6674..6826, 6971..7339, 7552..7589, 7767..7794, 7844..8007, 8063..8207, 8467..8625, 8674..8877		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60421	Strand	-
Start	15663	End	17713
Name	OJ000250_10.0209.C2.o5.gs	Method	GENSCAN
Start	15663	End	17713
GI	none	Score	.55
Exons	15663..15777, 17565..17713		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60422	Strand	-
Start	25089	End	26279
Name	OJ000250_10.0209.C2.o2.np	Method	AAT/NAP
Start	25089	End	26279
GI	3980383	Score	178
Exons	25089..25206, 25481..25519, 26087..26139, 26241..26279		
GI Descrip.	(AC004561) unknown protein [Arabidopsis thaliana] gi 5107174 gb AAD39999.1 AF150093_1 (AF150093) small zinc finger-like protein [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60423	Strand	-
Start	30768	End	32249
Name	OJ000250_10.0209.C2.o8.gs	Method	GENSCAN
Start	30768	End	32249
GI	none	Score	.88
Exons	30768..32249		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60424	Strand	-
Start	33422	End	34379
Name	OJ000250_10.0209.C2.o9.gs	Method	GENSCAN
Start	33422	End	34379
GI	none	Score	.56
Exons	33422..33532, 34101..34379		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60425	Strand	-
Start	34556	End	34909
Name	OJ000250_10.0209.C2.o10.gs	Method	GENSCAN
Start	34556	End	34909
GI	none	Score	.6
Exons	34556..34622, 34782..34909		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60426	Strand	-
Start	43960	End	46035
Name	OJ000250_10.0209.C2.o12.gs	Method	GENSCAN
Start	43960	End	46008
GI	none	Score	.82
Exons	43960..44178, 44327..44622, 44715..44804, 44963..45128, 45235..45470, 45672..46008		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60426	Strand	-
Start	43960	End	46035
Name	OJ000250_10.0209.C2.o5.np	Method	AAT/NAP
Start	44016	End	45429
GI	2252830	Score	602
Exons	44016..44228, 44327..44639, 44711..44797, 44928..45137, 45235..45429		
GI Descrip.	(AF013293) weak similarity to receptor protein kinase [Arabidopsis thaliana] gi 6049872 gb AAF02787.1 AF195115_/ (AF195115) weak similarity to receptor protein kinase [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60426	Strand	-
Start	43960	End	46035
Name	OJ000250_10.0209.C2.o8.gp	Method	AAT/GAP
Start	45439	End	46035
GI	4714973	Score	1171
Exons	45439..46035		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o2.ts	Method	TBLASTX:Soybean
Start	18961	End	44473
GI	none	Score	72
Exons	18961..19023, 18965..19033, 19655..19762, 19660..19764, 19781..19849, 19932..20069, 19933..20067, 20610..20741, 20613..20741, 20829..20924, 20829..20939, 20830..20937, 21393..21476, 21394..21480, 21551..21742, 21564..21743, 22738..22830, 23050..23235, 23060..23218, 44378..44473		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o14.tm	Method	TBLASTX:Maize
Start	18964	End	19744
GI	none	Score	136
Exons	18964..19035, 18965..19036, 19613..19744, 19613..19735, 19645..19743		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o5.tc	Method	TBLASTX:Cress
Start	18971	End	20076
GI	none	Score	96
Exons	18971..19027, 19646..19768, 19648..19764, 19781..19849, 19932..20069, 19933..20067, 19945..20076		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o2.tw	Method	TBLASTX:Wheat
Start	19631	End	20052
GI	none	Score	155
Exons	19631..19762, 19631..19738, 19645..19761, 19762..19848, 19763..19870, 19932..20051, 19933..20052, 19933..20052		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o7.tm	Method	TBLASTX:Maize
Start	19744	End	20724
GI	none	Score	165
Exons	19744..19848, 19745..19849, 19932..20069, 19933..20067, 20604..20723, 20612..20722, 20613..20723, 20650..20724		



Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o6.tc	Method	TBLASTX:Cress
Start	20603	End	21622
GI	none	Score	177
Exons	20603..20740, 20613..20741, 20627..20767, 20631..20741, 20650..20763, 20829..20918, 20829..20939, 20830..20964, 21393..21476, 21394..21480, 21551..21622, 21564..21611		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o1.tw	Method	TBLASTX:Wheat
Start	20716	End	44473
GI	none	Score	48
Exons	20716..20745, 20718..20744, 20719..20745, 20829..20933, 20829..20960, 20830..20937, 21393..21479, 21394..21480, 21548..21673, 21549..21674, 21553..21675, 21564..21674, 44378..44473		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o6.tm	Method	TBLASTX:Maize
Start	21393	End	44464
GI	none	Score	143
Exons	21393..21476, 21394..21480, 21551..21736, 21556..21738, 21560..21736, 21564..21737, 21990..22139, 21998..22138, 22000..22161, 22741..22830, 44378..44464		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o3.tc	Method	TBLASTX:Cress
Start	21636	End	45059
GI	none	Score	53
Exons	21636..21734, 21779..21877, 44040..44228, 44044..44217, 44316..44504, 44327..44497, 44510..44614, 44535..44615, 44728..44796, 44729..44797, 44964..45059		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o11.tm	Method	TBLASTX:Maize
Start	23064	End	23487
GI	none	Score	134
Exons	23064..23249, 23065..23259, 23066..23224, 23067..23255, 23262..23339, 23262..23330, 23263..23331, 23297..23338, 23306..23341, 23336..23368, 23337..23366, 23344..23412, 23357..23413, 23358..23414, 23365..23418, 23380..23487, 23410..23460		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o5.tm	Method	TBLASTX:Maize

Start	26695	End	27136
GI	none	Score	79
Exons	26695..26769, 26729..26773, 26878..27135, 26918..27136		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o9.tm	Method	TBLASTX:Maize
Start	27660	End	28599
GI	none	Score	215
Exons	27660..27794, 27662..27793, 28284..28598, 28289..28333, 28395..28598, 28396..28599		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o8.tm	Method	TBLASTX:Maize
Start	30744	End	31053
GI	none	Score	217
Exons	30744..30836, 30754..30837, 30900..31052, 30901..31053, 31000..31053		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o1.tc	Method	TBLASTX:Cress
Start	30906	End	31298
GI	none	Score	122
Exons	30906..31298, 30922..31101, 31147..31245		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o5.ts	Method	TBLASTX:Soybean
Start	30963	End	31220
GI	none	Score	88
Exons	30963..31220, 30976..31212		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o1.tm	Method	TBLASTX:Maize
Start	31059	End	31643
GI	none	Score	382
Exons	31059..31508, 31060..31374, 31191..31448, 31509..31643		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o6.ts	Method	TBLASTX:Soybean
Start	35604	End	38319
GI	none	Score	77
Exons	35604..35738, 37271..37378, 37272..37379, 37279..37380, 37279..37380, 37787..37873, 38049..38195, 38071..38196, 38072..38197, 38284..38319		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
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Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o1.ts	Method	TBLASTX:Soybean
Start	39544	End	40786
GI	none	Score	78
Exons	39544..39594, 39974..40246, 39974..40243, 39985..40245, 40610..40786, 40611..40784, 40636..40785		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o12.tm	Method	TBLASTX:Maize
Start	39974	End	40766
GI	none	Score	221
Exons	39974..40153, 39985..40152, 40607..40759, 40611..40760, 40611..40766		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o2.tm	Method	TBLASTX:Maize
Start	40154	End	42452
GI	none	Score	68
Exons	40154..40231, 41141..41449, 41142..41432, 41517..41642, 41518..41634, 42364..42447, 42365..42451, 42366..42452		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o3.ts	Method	TBLASTX:Soybean
Start	41168	End	41453
GI	none	Score	342
Exons	41168..41443, 41169..41453		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o4.tc	Method	TBLASTX:Cress
Start	41195	End	42434
GI	none	Score	77
Exons	41195..41263, 41196..41261, 41201..41263, 41291..41449, 41292..41441, 41517..41642, 41518..41634, 42369..42434		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o4.ts	Method	TBLASTX:Soybean
Start	42365	End	42708
GI	none	Score	104
Exons	42365..42523, 42365..42565, 42369..42566, 42643..42708		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o2.tc	Method	TBLASTX:Cress
Start	42434	End	42951
GI	none	Score	161

Exons 42434..42565, 42438..42566, 42642..42824, 42643..42825,  
42822..42866, 42823..42843, 42877..42951

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o4.tm	Method	TBLASTX:Maize
Start	42499	End	42959
GI	none	Score	47
Exons	42499..42549, 42508..42552, 42510..42566, 42638..42775, 42639..42959, 42640..42954, 42843..42959		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o7.ts	Method	TBLASTX:Soybean
Start	44531	End	45393
GI	none	Score	100
Exons	44531..44626, 44725..44787, 44949..45122, 45241..45393		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o13.tm	Method	TBLASTX:Maize
Start	44725	End	45378
GI	none	Score	73
Exons	44725..44796, 44959..45057, 44964..45119, 45235..45378		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o14.gs	Method	GENSCAN
Start	54304	End	61086
GI	none	Score	.85
Exons	54304..54534, 56541..57064, 57575..57764, 58375..59835, 60639..60755, 60904..61086		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o3.tm	Method	TBLASTX:Maize
Start	56298	End	57714
GI	none	Score	97
Exons	56298..56360, 56465..56599, 56475..57059, 56475..56639, 56682..56939, 57569..57712, 57570..57713, 57571..57714		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o7.np	Method	AAT/NAP
Start	56472	End	60279
GI	6729505	Score	146
Exons	56472..57171, 57620..57700, 58395..58467, 60256..60279		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-

Start	54304	End	61319
Name	OJ000250_10.0209.C2.o8.np	Method	AAT/NAP
Start	56472	End	61319
GI	6729505	Score	148
Exons	56472..57171, 57620..57684, 61296..61319		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	29256	Seq. ID	OJ000250_10.0209.C2
Gene No.	60427	Strand	-
Start	54304	End	61319
Name	OJ000250_10.0209.C2.o10.tm	Method	TBLASTX:Maize
Start	59555	End	59835
GI	none	Score	37
Exons	59555..59578, 59579..59824, 59581..59835, 59682..59834		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60428	Strand	+
Start	1138	End	1497
Name	OJ000250_10.0209.C3.o1.gs	Method	GENSCAN
Start	1138	End	1497
GI	none	Score	1
Exons	1138..1497		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60429	Strand	+
Start	6988	End	9135
Name	OJ000250_10.0209.C3.o3.gs	Method	GENSCAN
Start	6988	End	8906
GI	none	Score	.94
Exons	6988..7160, 7263..7372, 7492..7679, 8439..8906		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60429	Strand	+
Start	6988	End	9135
Name	OJ000250_10.0209.C3.o3.gp	Method	AAT/GAP
Start	8450	End	9135
GI	59125_1.R1084	Score	1323
Exons	8450..9135		
GI Descrip.	'5360657/dbj BAA82094.1  0.0e+00 (AB022602) anthranilate synthase alpha 1 subunit [Oryza sativa]'		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60430	Strand	+
Start	18480	End	21319
Name	OJ000250_10.0209.C3.o5.gp	Method	AAT/GAP
Start	18380	End	19027
GI	43297_1.R1084	Score	1292
Exons	18380..19027		
GI Descrip.	'3426039 1.0e-39 (AC005168) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60430	Strand	+
Start	18480	End	21319
Name	OJ000250_10.0209.C3.o5.gs	Method	GENSCAN
Start	18480	End	20902
GI	none	Score	.98

Exons 18480..19623, 20165..20341, 20586..20902

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60430 Strand +  
Start 18480 End 21319  
Name OJ000250\_10.0209.C3.o3.np Method AAT/NAP  
Start 18555 End 20872  
GI 3426039 Score 1518  
Exons 18555..19623, 20165..20341, 20586..20872  
GI Descrip. (AC005168) putative phospholipase C [Arabidopsis thaliana]

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60430 Strand +  
Start 18480 End 21319  
Name OJ000250\_10.0209.C3.o6.gp Method AAT/GAP  
Start 19102 End 21319  
GI 3704\_1.R1084 Score 2811  
Exons 19102..19623, 20165..20341, 20586..21319  
GI Descrip. '3426039 1.0e-117 (AC005168) unknown protein [Arabidopsis thaliana]'

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60431 Strand +  
Start 29695 End 30098  
Name OJ000250\_10.0209.C3.o8.gs Method GENSCAN  
Start 29695 End 30098  
GI none Score .7  
Exons 29695..29748, 29880..30098

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60432 Strand +  
Start 32294 End 35654  
Name OJ000250\_10.0209.C3.o5.np Method AAT/NAP  
Start 32294 End 35654  
GI 5295951 Score 156  
Exons 32294..32507, 35622..35654  
GI Descrip. (AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60433 Strand -  
Start 208 End 536  
Name OJ000250\_10.0209.C3.o1.gp Method AAT/GAP  
Start 208 End 536  
GI 6012857 Score 502  
Exons 208..295, 323..536  
GI Descrip. 5852077/emb|AL117264.1|OSB6015 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone: b6015

Seq. No. 29257 Seq. ID OJ000250\_10.0209.C3  
Gene No. 60434 Strand -  
Start 1067 End 1777  
Name OJ000250\_10.0209.C3.o2.gp Method AAT/GAP  
Start 1067 End 1777  
GI none Score 1387  
Exons 1067..1777

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60435	Strand	-
Start	2458	End	5190
Name	OJ000250_10.0209.C3.o2.gs	Method	GENSCAN
Start	2458	End	5086
GI	none	Score	.78
Exons	2458..2501, 2593..2690, 2834..2950, 3334..3488, 3677..3775, 3920..4049, 4183..4322, 4506..4695, 4802..5003, 5044..5086		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60435	Strand	-
Start	2458	End	5190
Name	OJ000250_10.0209.C3.o1.np	Method	AAT/NAP
Start	2833	End	5190
GI	4558669	Score	733
Exons	2833..2950, 3334..3488, 3677..3775, 3920..4049, 4183..4322, 4506..4620, 5096..5190		
GI Descrip.	(AC007063) putative vanadate resistance protein [Arabidopsis thaliana]		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60436	Strand	-
Start	9741	End	15108
Name	OJ000250_10.0209.C3.o4.gp	Method	AAT/GAP
Start	9564	End	15108
GI	5360656	Score	4058
Exons	9564..10064, 10453..10539, 10735..10815, 11417..11569, 12353..12409, 12505..12751, 12867..12982, 13529..13680, 14168..14357, 14431..14624, 14711..15108		
GI Descrip.	5360657/dbj BAA82094.1  0.0e+00 (AB022602) anthranilate synthase alpha 1 subunit [Oryza sativa]		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60436	Strand	-
Start	9741	End	15108
Name	OJ000250_10.0209.C3.o4.gs	Method	GENSCAN
Start	9741	End	14843
GI	none	Score	.93
Exons	9741..10064, 10453..10539, 10735..10815, 11417..11669, 12165..12262, 12353..12409, 12505..12751, 12867..12982, 13529..13680, 14168..14387, 14431..14624, 14711..14843		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60436	Strand	-
Start	9741	End	15108
Name	OJ000250_10.0209.C3.o2.np	Method	AAT/NAP
Start	9744	End	14843
GI	5360657	Score	2665
Exons	9744..10064, 10453..10539, 10735..10815, 11417..11569, 12353..12409, 12505..12751, 12867..12982, 13529..13680, 14168..14357, 14431..14624, 14711..14843		
GI Descrip.	(AB022602) anthranilate synthase alpha 1 subunit [Oryza sativa]		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60437	Strand	-
Start	22673	End	25632
Name	OJ000250_10.0209.C3.o4.np	Method	AAT/NAP

Start	21884	End	23309
GI	5852084	Score	74
Exons	21884..21971, 23274..23309		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60437	Strand	-
Start	22673	End	25632
Name	OJ000250_10.0209.C3.o6.gs	Method	GENSCAN
Start	22673	End	25632
GI	none	Score	.8
Exons	22673..22827, 22909..23022, 23106..23177, 23287..23429, 23912..24090, 25253..25329, 25449..25632		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60437	Strand	-
Start	22673	End	25632
Name	OJ000250_10.0209.C3.o7.gp	Method	AAT/GAP
Start	23282	End	25553
GI	none	Score	758
Exons	23282..23429, 23912..24045, 25253..25318, 25449..25553		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60438	Strand	-
Start	27836	End	28764
Name	OJ000250_10.0209.C3.o7.gs	Method	GENSCAN
Start	27836	End	28550
GI	none	Score	.55
Exons	27836..27991, 28150..28466, 28496..28550		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60438	Strand	-
Start	27836	End	28764
Name	OJ000250_10.0209.C3.o8.gp	Method	AAT/GAP
Start	27850	End	28764
GI	none	Score	1207
Exons	27850..27991, 28150..28408, 28496..28764		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60439	Strand	-
Start	32844	End	34534
Name	OJ000250_10.0209.C3.o9.gs	Method	GENSCAN
Start	32844	End	34472
GI	none	Score	.82
Exons	32844..33000, 33545..33619, 33705..33955, 34039..34259, 34418..34472		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60439	Strand	-
Start	32844	End	34534
Name	OJ000250_10.0209.C3.o9.gp	Method	AAT/GAP
Start	34124	End	34534
GI	none	Score	459
Exons	34124..34259, 34418..34534		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-



Start	36387	End	39567
Name	OJ000250_10.0209.C3.o3.tw	Method	TBLASTX:Wheat
Start	3696	End	4232
GI	none	Score	91
Exons	3696..3773, 3698..3784, 3698..3781, 3917..4054, 3921..4052, 3931..4062, 3932..4063, 4183..4227, 4183..4221, 4185..4232		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o10.tm	Method	TBLASTX:Maize
Start	3929	End	4325
GI	none	Score	95
Exons	3929..4069, 3930..4052, 4185..4325, 4195..4311		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o7.tc	Method	TBLASTX:Cress
Start	3965	End	4616
GI	none	Score	94
Exons	3965..4069, 3972..4052, 4185..4325, 4195..4323, 4506..4616, 4529..4591		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o7.ts	Method	TBLASTX:Soybean
Start	6985	End	7161
GI	none	Score	251
Exons	6985..7161, 6987..7157		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o2.tm	Method	TBLASTX:Maize
Start	6987	End	8834
GI	none	Score	285
Exons	6987..7163, 6988..7161, 7224..7370, 7249..7383, 7262..7372, 7417..7497, 7491..7547, 7491..7553, 7495..7554, 7601..7678, 7602..7679, 7602..7679, 7603..7680, 7604..7678, 8378..8413, 8430..8504, 8430..8522, 8434..8571, 8436..8522, 8565..8834, 8622..8723, 8653..8802		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o2.tc	Method	TBLASTX:Cress
Start	6997	End	7541
GI	none	Score	206
Exons	6997..7161, 6999..7151, 7069..7161, 7215..7370, 7249..7395, 7491..7541		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o3.tc	Method	TBLASTX:Cress

Start	9738	End	10068
GI	none	Score	119
Exons	9738..9956, 9750..9914, 9751..9948, 9940..10068, 9948..10067		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o2.ts	Method	TBLASTX:Soybean
Start	9741	End	10055
GI	none	Score	206
Exons	9741..10055, 9742..10050		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o4.tm	Method	TBLASTX:Maize
Start	9741	End	10813
GI	none	Score	319
Exons	9741..10067, 9741..10067, 9745..10068, 10447..10539, 10450..10536, 10719..10811, 10729..10812, 10729..10812, 10733..10813		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o9.ts	Method	TBLASTX:Soybean
Start	10468	End	11564
GI	none	Score	97
Exons	10468..10539, 10729..10818, 10730..10816, 10733..10822, 10735..10818, 11412..11474, 11412..11552, 11413..11493, 11414..11563, 11523..11564		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o8.tm	Method	TBLASTX:Maize
Start	11413	End	14708
GI	none	Score	89
Exons	11413..11577, 11414..11578, 11415..11474, 11416..11493, 11546..11578, 13496..13681, 13529..13687, 13530..13688, 14166..14351, 14166..14357, 14167..14358, 14428..14574, 14429..14566, 14658..14708		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o4.tc	Method	TBLASTX:Cress
Start	11519	End	12763
GI	none	Score	66
Exons	11519..11578, 12353..12412, 12360..12413, 12500..12763, 12503..12655, 12505..12750		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o3.tm	Method	TBLASTX:Maize
Start	12353	End	12982

GI	none	Score	86
Exons	12353..12412, 12354..12413, 12355..12414, 12491..12748, 12504..12623, 12505..12750, 12505..12750, 12506..12751, 12866..12982, 12869..12982		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o6.ts	Method	TBLASTX:Soybean
Start	12368	End	12673
GI	none	Score	40
Exons	12368..12415, 12368..12412, 12500..12673, 12505..12672		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o4.ts	Method	TBLASTX:Soybean
Start	14172	End	14589
GI	none	Score	127
Exons	14172..14357, 14173..14358, 14449..14589, 14450..14566, 14455..14574		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o3.ts	Method	TBLASTX:Soybean
Start	18602	End	18974
GI	none	Score	411
Exons	18602..18961, 18618..18974		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o6.tm	Method	TBLASTX:Maize
Start	18617	End	18863
GI	none	Score	399
Exons	18617..18862, 18618..18863		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o5.tc	Method	TBLASTX:Cress
Start	18618	End	18881
GI	none	Score	329
Exons	18618..18881, 18620..18880		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o9.tm	Method	TBLASTX:Maize
Start	18863	End	19079
GI	none	Score	97
Exons	18863..18925, 18864..18926, 18936..19019, 18938..18973, 19020..19079, 19025..19078		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-

Start	36387	End	39567
Name	OJ000250_10.0209.C3.o1.tc	Method	TBLASTX:Cress
Start	18927	End	20662
GI	none	Score	1043
Exons	18927..19622, 19025..19207, 19262..19627, 20163..20357, 20164..20340, 20585..20662		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o8.ts	Method	TBLASTX:Soybean
Start	19026	End	19211
GI	none	Score	215
Exons	19026..19211, 19028..19210		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o1.tm	Method	TBLASTX:Maize
Start	19079	End	20911
GI	none	Score	962
Exons	19079..19207, 19080..19622, 19253..19630, 20163..20357, 20164..20340, 20166..20342, 20584..20910, 20585..20911, 20585..20911		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o1.ts	Method	TBLASTX:Soybean
Start	19212	End	20345
GI	none	Score	587
Exons	19212..19622, 19265..19627, 20154..20345, 20164..20340		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o5.ts	Method	TBLASTX:Soybean
Start	20623	End	20866
GI	none	Score	339
Exons	20623..20865, 20624..20866, 20633..20866		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o6.tc	Method	TBLASTX:Cress
Start	20663	End	20878
GI	none	Score	269
Exons	20663..20878, 20663..20869		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o11.tm	Method	TBLASTX:Maize
Start	22676	End	23032
GI	none	Score	116
Exons	22676..22762, 22677..22760, 22748..22843, 22767..22829, 22923..23021, 22943..23032		

Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o10.gs	Method	GENSCAN
Start	36387	End	39527
GI	none	Score	.45
Exons	36387..36394, 37021..37182, 37233..37394, 37521..37571, 37598..37735, 37791..38678, 39161..39224, 39261..39527		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o5.tm	Method	TBLASTX:Maize
Start	37654	End	38361
GI	none	Score	93
Exons	37654..37866, 37930..38238, 37943..38233, 38311..38361		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o7.np	Method	AAT/NAP
Start	37698	End	39567
GI	3810596	Score	568
Exons	37698..38663, 39428..39567		
GI Descrip.	(AC005398) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o1.tw	Method	TBLASTX:Wheat
Start	37828	End	38235
GI	none	Score	43
Exons	37828..38235, 37834..37866, 37928..38233		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o2.tw	Method	TBLASTX:Wheat
Start	38239	End	38682
GI	none	Score	39
Exons	38239..38346, 38324..38611, 38326..38682, 38458..38664		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o7.tm	Method	TBLASTX:Maize
Start	38362	End	38664
GI	none	Score	134
Exons	38362..38664, 38363..38509, 38543..38662		
Seq. No.	29257	Seq. ID	OJ000250_10.0209.C3
Gene No.	60440	Strand	-
Start	36387	End	39567
Name	OJ000250_10.0209.C3.o10.ts	Method	TBLASTX:Soybean
Start	38428	End	38664

GI none Score 43  
Exons 38428..38478, 38449..38478, 38464..38541, 38468..38542,  
38551..38664, 38555..38617

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o1.np Method AAT/NAP  
Start 1 End 1248  
GI 3645899 Score 1202  
Exons 1..21, 242..1248  
GI Descrip. (U68408) 5' end not determined experimentally [Zea mays]

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o3.np Method AAT/NAP  
Start 1 End 3370  
GI 4416301 Score 456  
Exons 1..46, 1925..3370  
GI Descrip. (AF105716) gag protein [Zea mays]

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o1.gs Method GENSCAN  
Start 254 End 3402  
GI none Score .55  
Exons 254..682, 718..1242, 1280..1400, 1545..1775, 1925..2154,  
2173..2465, 2476..2901, 2952..3402

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o1.tw Method TBLASTX:Wheat  
Start 266 End 825  
GI none Score 161  
Exons 266..550, 267..554, 535..579, 538..645, 590..673, 606..674,  
664..825

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o2.tm Method TBLASTX:Maize  
Start 267 End 682  
GI none Score 391  
Exons 267..668, 275..682, 523..669

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4  
Gene No. 60441 Strand -  
Start 1 End 7493  
Name OJ000250\_10.0209.C4.o5.ts Method TBLASTX:Soybean  
Start 281 End 643  
GI none Score 52  
Exons 281..553, 551..643

Seq. No. 29258 Seq. ID OJ000250\_10.0209.C4

Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o7.tm	Method	TBLASTX:Maize
Start	684	End	930
GI	none	Score	177
Exons	684..872, 685..867, 685..873, 689..877, 868..930, 881..919		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o6.tw	Method	TBLASTX:Wheat
Start	904	End	1218
GI	none	Score	76
Exons	904..1218, 1004..1129, 1184..1213		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o4.tm	Method	TBLASTX:Maize
Start	931	End	1337
GI	none	Score	187
Exons	931..1239, 932..1234, 1259..1336, 1263..1337		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o2.np	Method	AAT/NAP
Start	1206	End	3389
GI	4416301	Score	460
Exons	1206..1478, 1843..3389		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o4.np	Method	AAT/NAP
Start	1643	End	4594
GI	3645898	Score	524
Exons	1643..1857, 1945..2406, 2437..3359, 4574..4594		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o5.tw	Method	TBLASTX:Wheat
Start	2902	End	3297
GI	none	Score	59
Exons	2902..3294, 3200..3295, 3202..3297		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o5.np	Method	AAT/NAP
Start	2918	End	7493
GI	6466937	Score	1641
Exons	2918..2997, 4971..7493		

GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o2.ts	Method	TBLASTX:Soybean
Start	4971	End	5255
GI	none	Score	163
Exons	4971..5255, 4972..5241		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o6.tm	Method	TBLASTX:Maize
Start	4998	End	5297
GI	none	Score	111
Exons	4998..5297, 4999..5163		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o3.tw	Method	TBLASTX:Wheat
Start	5107	End	5504
GI	none	Score	75
Exons	5107..5367, 5109..5504		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o5.tm	Method	TBLASTX:Maize
Start	5334	End	5691
GI	none	Score	120
Exons	5334..5690, 5446..5691		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o3.gs	Method	GENSCAN
Start	5580	End	7493
GI	none	Score	.71
Exons	5580..6040, 6275..7028, 7335..7493		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o1.tm	Method	TBLASTX:Maize
Start	5691	End	6218
GI	none	Score	161
Exons	5691..6218, 5713..6033, 6082..6216		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o3.ts	Method	TBLASTX:Soybean
Start	5694	End	5939
GI	none	Score	207



Exons 5694..5939

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o4.tw	Method	TBLASTX:Wheat
Start	5847	End	6233
GI	none	Score	55
Exons	5847..6233, 6015..6158, 6112..6216		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o1.ts	Method	TBLASTX:Soybean
Start	5961	End	6320
GI	none	Score	60
Exons	5961..6215, 6230..6274, 6270..6320		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o3.tm	Method	TBLASTX:Maize
Start	6243	End	6719
GI	none	Score	40
Exons	6243..6263, 6273..6713, 6273..6719		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o2.tw	Method	TBLASTX:Wheat
Start	6297	End	6779
GI	none	Score	181
Exons	6297..6779, 6301..6660, 6330..6674		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o4.ts	Method	TBLASTX:Soybean
Start	6429	End	6743
GI	none	Score	200
Exons	6429..6743		

Seq. No.	29258	Seq. ID	OJ000250_10.0209.C4
Gene No.	60441	Strand	-
Start	1	End	7493
Name	OJ000250_10.0209.C4.o8.tm	Method	TBLASTX:Maize
Start	7032	End	7328
GI	none	Score	94
Exons	7032..7241, 7048..7179, 7281..7328		

Seq. No.	29259	Seq. ID	OJ000250_10.0209.C5
Gene No.	60442	Strand	-
Start	182	End	442
Name	OJ000250_10.0209.C5.o1.gs	Method	GENSCAN
Start	182	End	442
GI	none	Score	.66
Exons	182..343, 425..442		

Seq. No. 29260  
 Gene No. 60443  
 Start 33  
 Name OJ000250\_12.0209.C3.o1.gs  
 Start 33  
 GI none  
 Exons 33..108, 308..390

Seq. ID OJ000250\_12.0209.C3  
 Strand +  
 End 390  
 Method GENSCAN  
 End 390  
 Score .81

Seq. No. 29261  
 Gene No. 60444  
 Start 1  
 Name OJ000250\_12.0209.C4.o1.gp  
 Start 1  
 GI 5701669  
 Exons 1..80

Seq. ID OJ000250\_12.0209.C4  
 Strand -  
 End 668  
 Method AAT/GAP  
 End 80  
 Score 92

GI Descrip. 5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 29261  
 Gene No. 60444  
 Start 1  
 Name OJ000250\_12.0209.C4.o1.gs  
 Start 1  
 GI none  
 Exons 1..573

Seq. ID OJ000250\_12.0209.C4  
 Strand -  
 End 668  
 Method GENSCAN  
 End 573  
 Score .96

Seq. No. 29261  
 Gene No. 60444  
 Start 1  
 Name OJ000250\_12.0209.C4.o1.np  
 Start 1  
 GI 5441880  
 Exons 1..668

Seq. ID OJ000250\_12.0209.C4  
 Strand -  
 End 668  
 Method AAT/NAP  
 End 668  
 Score 1010

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 29262  
 Gene No. 60445  
 Start 716  
 Name OJ000250\_12.0209.C5.o1.gs  
 Start 716  
 GI none  
 Exons 716..951

Seq. ID OJ000250\_12.0209.C5  
 Strand -  
 End 951  
 Method GENSCAN  
 End 951  
 Score .84

Seq. No. 29263  
 Gene No. 60446  
 Start 5380  
 Name OJ000250\_12.0209.C8.o1.gp  
 Start 5380  
 GI uC-osroM202018e03b1  
 Exons 5380..5808

Seq. ID OJ000250\_12.0209.C8  
 Strand +  
 End 5808  
 Method AAT/GAP  
 End 5808  
 Score 796

GI Descrip. '3218542/dbj|AB004813|AB004813 8.0e-09 Oryza sativa AOX1b and AOX1a genes, complete cds'

Seq. No.	29263	Seq. ID	OJ000250_12.0209.C8
Gene No.	60447	Strand	-
Start	2437	End	6875
Name	OJ000250_12.0209.C8.o1.gs	Method	GENSCAN
Start	2437	End	6875
GI	none	Score	.69
Exons	2437..2565, 2705..2859, 3108..3190, 4912..5165, 5259..5588, 6831..6875		

Seq. No.	29264	Seq. ID	OJ000250_12.0209.C9
Gene No.	60448	Strand	+
Start	69	End	232
Name	OJ000250_12.0209.C9.o1.gs	Method	GENSCAN
Start	69	End	232
GI	none	Score	.73
Exons	69..232		

Seq. No.	29264	Seq. ID	OJ000250_12.0209.C9
Gene No.	60449	Strand	-
Start	1	End	175
Name	OJ000250_12.0209.C9.o1.np	Method	AAT/NAP
Start	1	End	175
GI	6630697	Score	89
Exons	1..175		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

Seq. No.	29265	Seq. ID	OJ000250_12.0209.C10
Gene No.	60450	Strand	-
Start	228	End	2355
Name	OJ000250_12.0209.C10.o1.np	Method	AAT/NAP
Start	228	End	2355
GI	5578718	Score	947
Exons	228..322, 889..1302, 1609..1874, 1970..2355		
GI Descrip.	(L77688) mevalonate kinase [Arabidopsis thaliana]		

Seq. No.	29265	Seq. ID	OJ000250_12.0209.C10
Gene No.	60450	Strand	-
Start	228	End	2355
Name	OJ000250_12.0209.C10.o1.gs	Method	GENSCAN
Start	1021	End	2355
GI	none	Score	.82
Exons	1021..1302, 1609..1874, 1970..2355		

Seq. No.	29265	Seq. ID	OJ000250_12.0209.C10
Gene No.	60451	Strand	-
Start	4511	End	7543
Name	OJ000250_12.0209.C10.o1.tm	Method	TBLASTX:Maize
Start	170	End	1028
GI	none	Score	85
Exons	170..205, 224..325, 224..325, 226..327, 258..326, 890..1027, 891..1025, 891..1028, 896..1027		

Seq. No.	29265	Seq. ID	OJ000250_12.0209.C10
Gene No.	60451	Strand	-
Start	4511	End	7543
Name	OJ000250_12.0209.C10.o1.tc	Method	TBLASTX:Cress
Start	890	End	2340

GI none Score 160  
 Exons 890..1093, 891..1025, 893..1042, 1110..1304, 1127..1303,  
 1134..1307, 1375..1419, 1592..1729, 1605..1730, 1787..1867,  
 1797..1874, 1967..2092, 1969..2091, 2239..2340

Seq. No. 29265 Seq. ID OJ000250\_12.0209.C10  
 Gene No. 60451 Strand -  
 Start 4511 End 7543  
 Name OJ000250\_12.0209.C10.o2.gs Method GENSCAN  
 Start 4511 End 7393  
 GI none Score .55  
 Exons 4511..4634, 4668..4784, 5404..5441, 5804..5940, 6118..6265,  
 7265..7393

Seq. No. 29265 Seq. ID OJ000250\_12.0209.C10  
 Gene No. 60451 Strand -  
 Start 4511 End 7543  
 Name OJ000250\_12.0209.C10.o2.np Method AAT/NAP  
 Start 7055 End 7543  
 GI 6539553 Score 750  
 Exons 7055..7543  
 GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1  
 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837)  
 Similar to Oryza australiensis retrotransposon RIRE1 (D85597).  
 [Oryza sativa]

Seq. No. 29265 Seq. ID OJ000250\_12.0209.C10  
 Gene No. 60451 Strand -  
 Start 4511 End 7543  
 Name OJ000250\_12.0209.C10.o1.tw Method TBLASTX:Wheat  
 Start 7191 End 7541  
 GI none Score 312  
 Exons 7191..7541, 7193..7540

Seq. No. 29266 Seq. ID OJ000250\_12.0209.C11  
 Gene No. 60452 Strand -  
 Start 1 End 2239  
 Name OJ000250\_12.0209.C11.o1.np Method AAT/NAP  
 Start 1 End 2239  
 GI 6539553 Score 3673  
 Exons 1..2239  
 GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1  
 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837)  
 Similar to Oryza australiensis retrotransposon RIRE1 (D85597)  
 [Oryza sativa]

Seq. No. 29266 Seq. ID OJ000250\_12.0209.C11  
 Gene No. 60452 Strand -  
 Start 1 End 2239  
 Name OJ000250\_12.0209.C11.o4.ts Method TBLASTX:Soybean  
 Start 1 End 317  
 GI none Score 100  
 Exons 1..186, 29..181, 204..317

Seq. No. 29266 Seq. ID OJ000250\_12.0209.C11  
 Gene No. 60452 Strand -  
 Start 1 End 2239

Name	OJ000250_12.0209.C11.o3.tw	Method	TBLASTX:Wheat
Start	1	End	330
GI	none	Score	140
Exons	1..195, 1..198, 2..199, 198..233, 243..323, 249..323, 253..330		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o1.gs	Method	GENSCAN
Start	63	End	2118
GI	none	Score	.49
Exons	63..1375, 1887..2118		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o2.tm	Method	TBLASTX:Maize
Start	198	End	519
GI	none	Score	157
Exons	198..512, 198..518, 232..519		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o2.ts	Method	TBLASTX:Soybean
Start	330	End	675
GI	none	Score	120
Exons	330..674, 475..675		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o2.tw	Method	TBLASTX:Wheat
Start	528	End	1073
GI	none	Score	40
Exons	528..734, 538..669, 729..1073, 753..926		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o1.tm	Method	TBLASTX:Maize
Start	609	End	1074
GI	none	Score	109
Exons	609..1073, 712..1074		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o1.ts	Method	TBLASTX:Soybean
Start	744	End	1208
GI	5509260	Score	89
Exons	744..1208, 763..927		
GI Descrip.	-		

Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239

Name	OJ000250_12.0209.C11.o1.tc	Method	TBLASTX:Cress
Start	855	End	1115
GI	none	Score	278
Exons	855..1115		
Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o1.tw	Method	TBLASTX:Wheat
Start	1131	End	1881
GI	none	Score	189
Exons	1131..1382, 1132..1287, 1148..1339, 1395..1667, 1430..1669, 1619..1873, 1666..1881		
Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o3.ts	Method	TBLASTX:Soybean
Start	1532	End	1929
GI	none	Score	72
Exons	1532..1672, 1666..1704, 1705..1929, 1720..1914, 1751..1921		
Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o3.tm	Method	TBLASTX:Maize
Start	1717	End	2151
GI	none	Score	77
Exons	1717..2151, 1742..1942		
Seq. No.	29266	Seq. ID	OJ000250_12.0209.C11
Gene No.	60452	Strand	-
Start	1	End	2239
Name	OJ000250_12.0209.C11.o4.tw	Method	TBLASTX:Wheat
Start	1882	End	2076
GI	none	Score	174
Exons	1882..2076, 1882..2073		
Seq. No.	29267	Seq. ID	OJ000250_12.0209.C12
Gene No.	60453	Strand	+
Start	309	End	333
Name	OJ000250_12.0209.C12.o1.gs	Method	GENSCAN
Start	309	End	333
GI	none	Score	.4
Exons	309..333		
Seq. No.	29268	Seq. ID	OJ000250_12.0209.C13
Gene No.	60454	Strand	-
Start	135	End	607
Name	OJ000250_12.0209.C13.o1.gs	Method	GENSCAN
Start	135	End	527
GI	none	Score	.62
Exons	135..527		
Seq. No.	29268	Seq. ID	OJ000250_12.0209.C13
Gene No.	60454	Strand	-
Start	135	End	607

Name	OJ000250_12.0209.C13.o1.np	Method	AAT/NAP
Start	147	End	607
GI	6539553	Score	733
Exons	147..607		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29269	Seq. ID	OJ000250_12.0209.C14
Gene No.	60455	Strand	+
Start	280	End	399
Name	OJ000250_12.0209.C14.o1.np	Method	AAT/NAP
Start	280	End	399
GI	6539553	Score	125
Exons	280..399		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29269	Seq. ID	OJ000250_12.0209.C14
Gene No.	60456	Strand	-
Start	13	End	125
Name	OJ000250_12.0209.C14.o1.gs	Method	GENSCAN
Start	13	End	125
GI	none	Score	.51
Exons	13..125		

Seq. No.	29270	Seq. ID	OJ000250_12.0209.C15
Gene No.	60457	Strand	-
Start	1	End	126
Name	OJ000250_12.0209.C15.o1.np	Method	AAT/NAP
Start	1	End	126
GI	5441880	Score	101
Exons	1..126		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29270	Seq. ID	OJ000250_12.0209.C15
Gene No.	60458	Strand	-
Start	102	End	1198
Name	OJ000250_12.0209.C15.o1.gs	Method	GENSCAN
Start	102	End	579
GI	none	Score	.6
Exons	102..579		

Seq. No.	29270	Seq. ID	OJ000250_12.0209.C15
Gene No.	60458	Strand	-
Start	102	End	1198
Name	OJ000250_12.0209.C15.o2.np	Method	AAT/NAP
Start	139	End	1198
GI	6721543	Score	173
Exons	139..255, 1069..1198		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29270	Seq. ID	OJ000250_12.0209.C15
Gene No.	60458	Strand	-
Start	102	End	1198
Name	OJ000250_12.0209.C15.o1.gp	Method	AAT/GAP
Start	1033	End	1187
GI	7406_1.R1084	Score	208
Exons	1033..1187		
GI Descrip.	'1122315/emb CAA63901 :7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60459	Strand	+
Start	61	End	130
Name	OJ000250_12.0209.C16.o1.gs	Method	GENSCAN
Start	61	End	130
GI	none	Score	.95
Exons	61..130		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60460	Strand	+
Start	2881	End	3386
Name	OJ000250_12.0209.C16.o1.gp	Method	AAT/GAP
Start	2881	End	3386
GI	none	Score	926
Exons	2881..3386		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60461	Strand	-
Start	1	End	153
Name	OJ000250_12.0209.C16.o1.np	Method	AAT/NAP
Start	1	End	153
GI	6721543	Score	100
Exons	1..153		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o2.np	Method	AAT/NAP
Start	1542	End	6048
GI	2655888	Score	1248
Exons	1542..1632, 3556..5662, 6025..6048		
GI Descrip.	(AL009171) 62D9.a [Drosophila melanogaster]		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o2.gs	Method	GENSCAN
Start	3533	End	5668
GI	none	Score	.92
Exons	3533..5668		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o1.tm	Method	TBLASTX:Maize
Start	3560	End	5287



GI	none	Score	80
Exons	3560..3616, 3626..3649, 3683..3814, 3726..3818, 3930..4307, 3932..4468, 4346..4426, 4469..4504, 4496..4519, 5051..5188, 5210..5287		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o1.ts	Method	TBLASTX:Soybean
Start	3930	End	5095
GI	none	Score	61
Exons	3930..3980, 3932..4519, 3959..4255, 3986..4060, 4098..4307, 4365..4520, 4601..4726, 4602..4712, 4796..4858, 4922..5095		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o1.tc	Method	TBLASTX:Cress
Start	3986	End	4510
GI	none	Score	73
Exons	3986..4063, 4154..4399, 4221..4307, 4379..4510		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o2.tc	Method	TBLASTX:Cress
Start	4577	End	5434
GI	none	Score	90
Exons	4577..4693, 4796..4858, 5112..5297, 5114..5308, 5324..5362, 5384..5434		

Seq. No.	29271	Seq. ID	OJ000250_12.0209.C16
Gene No.	60462	Strand	-
Start	3533	End	6048
Name	OJ000250_12.0209.C16.o2.gp	Method	AAT/GAP
Start	5803	End	5856
GI	LIB3431-030-P1-N1-G8	Score	89
Exons	5803..5856		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	29272	Seq. ID	OJ000250_12.0209.C17
Gene No.	60463	Strand	-
Start	666	End	3370
Name	OJ000250_12.0209.C17.o1.gs	Method	GENSCAN
Start	666	End	3295
GI	none	Score	.65
Exons	666..986, 1722..2060, 2331..2432, 2479..2586, 2679..2940, 3045..3295		

Seq. No.	29272	Seq. ID	OJ000250_12.0209.C17
Gene No.	60463	Strand	-
Start	666	End	3370
Name	OJ000250_12.0209.C17.o1.np	Method	AAT/NAP
Start	1677	End	3370
GI	5441880	Score	628
Exons	1677..1886, 2362..2606, 2679..2940, 3045..3370		

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	29272	Seq. ID	OJ000250_12.0209.C17
Gene No.	60463	Strand	-
Start	666	End	3370
Name	OJ000250_12.0209.C17.o1.gp	Method	AAT/GAP
Start	1998	End	2431
GI	LIB3433-020-P1-K1-A6	Score	711
Exons	1998..2431		
GI Descrip.	'5670155/gb AF161269.1 AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	29273	Seq. ID	OJ000250_12.0209.C18
Gene No.	60464	Strand	-
Start	119	End	2249
Name	OJ000250_12.0209.C18.o1.np	Method	AAT/NAP
Start	119	End	2249
GI	5441880	Score	806
Exons	119..458, 567..706, 1308..1634, 1893..1931, 2225..2249		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29273	Seq. ID	OJ000250_12.0209.C18
Gene No.	60464	Strand	-
Start	119	End	2249
Name	OJ000250_12.0209.C18.o1.gs	Method	GENSCAN
Start	125	End	2069
GI	none	Score	.79
Exons	125..313, 337..491, 567..640, 938..966, 1187..2069		

Seq. No.	29273	Seq. ID	OJ000250_12.0209.C18
Gene No.	60464	Strand	-
Start	119	End	2249
Name	OJ000250_12.0209.C18.o1.tw	Method	TBLASTX:Wheat
Start	218	End	400
GI	none	Score	108
Exons	218..337, 219..338, 336..386, 347..400		

Seq. No.	29274	Seq. ID	OJ000250_12.0209.C19
Gene No.	60465	Strand	-
Start	1	End	1648
Name	OJ000250_12.0209.C19.o1.np	Method	AAT/NAP
Start	1	End	1181
GI	5441880	Score	1253
Exons	1..35, 170..1181		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29274	Seq. ID	OJ000250_12.0209.C19
Gene No.	60465	Strand	-
Start	1	End	1648
Name	OJ000250_12.0209.C19.o1.tw	Method	TBLASTX:Wheat
Start	1	End	318

GI	none	Score	42
Exons	1..84, 50..85, 87..116, 141..317, 166..318		
Seq. No.	29274	Seq. ID	OJ000250_12.0209.C19
Gene No.	60465	Strand	-
Start	1	End	1648
Name	OJ000250_12.0209.C19.o1.gs	Method	GENSCAN
Start	92	End	1648
GI	none	Score	.59
Exons	92..906, 940..1313, 1445..1648		
Seq. No.	29274	Seq. ID	OJ000250_12.0209.C19
Gene No.	60465	Strand	-
Start	1	End	1648
Name	OJ000250_12.0209.C19.o1.tm	Method	TBLASTX:Maize
Start	136	End	614
GI	none	Score	185
Exons	136..435, 147..614, 487..609		
Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60466	Strand	+
Start	1	End	4666
Name	OJ000250_12.0209.C20.o1.np	Method	AAT/NAP
Start	1	End	4666
GI	6063554	Score	192
Exons	1..44, 1795..2061, 2180..2325, 3083..3134, 3826..3858, 4497..4666		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60466	Strand	+
Start	1	End	4666
Name	OJ000250_12.0209.C20.o1.gp	Method	AAT/GAP
Start	3325	End	4058
GI	101153_1.R1084	Score	356
Exons	3325..3366, 3830..4058		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60467	Strand	+
Start	24954	End	27053
Name	OJ000250_12.0209.C20.o4.gs	Method	GENSCAN
Start	24954	End	27053
GI	none	Score	.64
Exons	24954..24989, 25386..25654, 25755..25867, 26758..27053		
Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60468	Strand	+
Start	31164	End	31792
Name	OJ000250_12.0209.C20.o3.np	Method	AAT/NAP
Start	31164	End	31792
GI	6016874	Score	101
Exons	31164..31282, 31559..31792		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a		

region of the predicted gene.; Similar to putative AC9  
transposase. (P03010) [Oryza sativa]

Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60469	Strand	-
Start	6186	End	6482
Name	OJ000250_12.0209.C20.o2.gs	Method	GENSCAN
Start	6186	End	6482
GI	none	Score	.53
Exons	6186..6482		

Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60470	Strand	-
Start	10703	End	12184
Name	OJ000250_12.0209.C20.o2.np	Method	AAT/NAP
Start	10703	End	12184
GI	4895219	Score	95
Exons	10703..10790, 11198..11407, 12097..12184		
GI Descrip.	(AC007660) putative WRKY-type DNA binding protein [Arabidopsis thaliana]		

Seq. No.	29275	Seq. ID	OJ000250_12.0209.C20
Gene No.	60471	Strand	-
Start	28763	End	29113
Name	OJ000250_12.0209.C20.o5.gs	Method	GENSCAN
Start	28763	End	29113
GI	none	Score	.62
Exons	28763..28951, 29027..29113		

Seq. No.	29276	Seq. ID	OJ000250_12.0209.C22
Gene No.	60472	Strand	+
Start	52	End	660
Name	OJ000250_12.0209.C22.o1.gs	Method	GENSCAN
Start	52	End	607
GI	none	Score	.78
Exons	52..607		

Seq. No.	29276	Seq. ID	OJ000250_12.0209.C22
Gene No.	60472	Strand	+
Start	52	End	660
Name	OJ000250_12.0209.C22.o1.np	Method	AAT/NAP
Start	505	End	660
GI	5441880	Score	255
Exons	505..660		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29277	Seq. ID	OJ000250_12.0209.C24
Gene No.	60473	Strand	-
Start	1	End	248
Name	OJ000250_12.0209.C24.o1.gp	Method	AAT/GAP
Start	1	End	248
GI	58838_1.R1084	Score	354
Exons	1..248		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	29278	Seq. ID	OJ000250_12.0209.C25
Gene No.	60474	Strand	+
Start	213	End	412
Name	OJ000250_12.0209.C25.o1.gs	Method	GENSCAN
Start	213	End	412
GI	none	Score	.8
Exons	213..412		

Seq. No.	29279	Seq. ID	OJ000250_12.0209.C26
Gene No.	60475	Strand	-
Start	1	End	567
Name	OJ000250_12.0209.C26.o1.np	Method	AAT/NAP
Start	1	End	567
GI	5441880	Score	970
Exons	1..567		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29279	Seq. ID	OJ000250_12.0209.C26
Gene No.	60475	Strand	-
Start	1	End	567
Name	OJ000250_12.0209.C26.o1.gs	Method	GENSCAN
Start	20	End	525
GI	none	Score	.71
Exons	20..525		

Seq. No.	29280	Seq. ID	OJ000250_12.0209.C27
Gene No.	60476	Strand	-
Start	1	End	450
Name	OJ000250_12.0209.C27.o1.np	Method	AAT/NAP
Start	1	End	450
GI	6539553	Score	662
Exons	1..450		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29280	Seq. ID	OJ000250_12.0209.C27
Gene No.	60476	Strand	-
Start	1	End	450
Name	OJ000250_12.0209.C27.o1.tm	Method	TBLASTX:Maize
Start	1	End	249
GI	none	Score	306
Exons	1..249, 2..241, 3..242		

Seq. No.	29280	Seq. ID	OJ000250_12.0209.C27
Gene No.	60476	Strand	-
Start	1	End	450
Name	OJ000250_12.0209.C27.o1.gs	Method	GENSCAN
Start	96	End	239
GI	none	Score	.7
Exons	96..239		

Seq. No.	29281	Seq. ID	OJ000250_12.0209.C28
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Gene No.	60477	Strand	-
Start	1	End	326
Name	OJ000250_12.0209.C28.o1.gp	Method	AAT/GAP
Start	1	End	326
GI	7406_1.R1084	Score	432
Exons	1..326		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o1.np	Method	AAT/NAP
Start	1	End	1113
GI	4680179	Score	1744
Exons	1..1113		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o3.tw	Method	TBLASTX:Wheat
Start	6	End	197
GI	none	Score	70
Exons	6..197, 18..179		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o1.gs	Method	GENSCAN
Start	34	End	1109
GI	none	Score	.81
Exons	34..1109		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o1.tw	Method	TBLASTX:Wheat
Start	201	End	710
GI	none	Score	302
Exons	201..710, 292..678		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o1.tm	Method	TBLASTX:Maize
Start	285	End	638
GI	none	Score	155
Exons	285..638, 300..596, 370..636		

Seq. No.	29282	Seq. ID	OJ000250_12.0209.C31
Gene No.	60478	Strand	-
Start	1	End	1113
Name	OJ000250_12.0209.C31.o2.ts	Method	TBLASTX:Soybean
Start	459	End	701
GI	none	Score	197
Exons	459..701		

Seq. No. 29282  
 Gene No. 60478  
 Start 1  
 Name OJ000250\_12.0209.C31.o2.tm  
 Start 675  
 GI none  
 Exons 675..1010, 996..1109

Seq. ID OJ000250\_12.0209.C31  
 Strand -  
 End 1113  
 Method TBLASTX:Maize  
 End 1109  
 Score 100

Seq. No. 29282  
 Gene No. 60478  
 Start 1  
 Name OJ000250\_12.0209.C31.o2.tw  
 Start 711  
 GI none  
 Exons 711..1013, 712..972

Seq. ID OJ000250\_12.0209.C31  
 Strand -  
 End 1113  
 Method TBLASTX:Wheat  
 End 1013  
 Score 200

Seq. No. 29282  
 Gene No. 60478  
 Start 1  
 Name OJ000250\_12.0209.C31.o1.ts  
 Start 717  
 GI none  
 Exons 717..953, 726..1085, 727..969, 944..1078, 1005..1082, 1089..1112

Seq. ID OJ000250\_12.0209.C31  
 Strand -  
 End 1113  
 Method TBLASTX:Soybean  
 End 1112  
 Score 80

Seq. No. 29283  
 Gene No. 60479  
 Start 244  
 Name OJ000250\_12.0209.C32.o1.np  
 Start 185  
 GI 4680179  
 Exons 185..1991

Seq. ID OJ000250\_12.0209.C32  
 Strand -  
 End 1991  
 Method AAT/NAP  
 End 1991  
 Score 2858

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 29283  
 Gene No. 60479  
 Start 244  
 Name OJ000250\_12.0209.C32.o4.tw  
 Start 230  
 GI none  
 Exons 230..334, 310..561, 425..562

Seq. ID OJ000250\_12.0209.C32  
 Strand -  
 End 1991  
 Method TBLASTX:Wheat  
 End 562  
 Score 79

Seq. No. 29283  
 Gene No. 60479  
 Start 244  
 Name OJ000250\_12.0209.C32.o1.gs  
 Start 244  
 GI none  
 Exons 244..1138, 1393..1857

Seq. ID OJ000250\_12.0209.C32  
 Strand -  
 End 1991  
 Method GENSCAN  
 End 1857  
 Score .59

Seq. No. 29283  
 Gene No. 60479  
 Start 244  
 Name OJ000250\_12.0209.C32.o1.tm  
 Start 421  
 GI none  
 Exons 421..690, 422..682, 751..849, 752..847, 781..849, 847..1005,

Seq. ID OJ000250\_12.0209.C32  
 Strand -  
 End 1991  
 Method TBLASTX:Maize  
 End 1005  
 Score 129

857..1000, 868..1002

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o2.tw	Method	TBLASTX:Wheat
Start	562	End	1187
GI	none	Score	297
Exons	562..1098, 563..1096, 1101..1187		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o2.tm	Method	TBLASTX:Maize
Start	1128	End	1577
GI	none	Score	54
Exons	1128..1544, 1141..1248, 1318..1509, 1380..1577		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o1.ts	Method	TBLASTX:Soybean
Start	1146	End	1406
GI	none	Score	54
Exons	1146..1214, 1146..1406, 1300..1401		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o1.tc	Method	TBLASTX:Cress
Start	1170	End	1496
GI	none	Score	64
Exons	1170..1313, 1171..1248, 1314..1496		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o1.tw	Method	TBLASTX:Wheat
Start	1194	End	1721
GI	none	Score	214
Exons	1194..1721, 1195..1578, 1227..1655		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o3.tm	Method	TBLASTX:Maize
Start	1761	End	1991
GI	none	Score	98
Exons	1761..1991, 1846..1989		

Seq. No.	29283	Seq. ID	OJ000250_12.0209.C32
Gene No.	60479	Strand	-
Start	244	End	1991
Name	OJ000250_12.0209.C32.o3.tw	Method	TBLASTX:Wheat
Start	1761	End	1991
GI	none	Score	177
Exons	1761..1991, 1767..1991		



Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60480	Strand	+
Start	939	End	6138
Name	OJ000250_12.0209.C33.o2.np	Method	AAT/NAP
Start	939	End	6138
GI	5295955	Score	771
Exons	939..959, 2142..2293, 3442..3558, 4102..4216, 4897..5152, 5286..5508, 5548..6138		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60481	Strand	+
Start	11340	End	11582
Name	OJ000250_12.0209.C33.o4.np	Method	AAT/NAP
Start	11340	End	11582
GI	6539553	Score	327
Exons	11340..11582		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o1.np	Method	AAT/NAP
Start	1	End	2488
GI	6721517	Score	3372
Exons	1..1336, 1385..2137, 2217..2371, 2425..2488		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o1.ts	Method	TBLASTX:Soybean
Start	2	End	328
GI	none	Score	84
Exons	2..292, 3..176, 151..285, 212..289, 296..328, 296..328		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o5.tw	Method	TBLASTX:Wheat
Start	2	End	220
GI	none	Score	114
Exons	2..220, 3..179, 5..220		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o1.gs	Method	GENSCAN
Start	38	End	14294
GI	none	Score	.44
Exons	38..1750, 1838..2485, 4909..4961, 5142..5369, 5461..5619, 6434..7182, 7571..7914, 7952..8240, 9154..9413, 9805..9850,		

11464..11555, 12156..12587, 12883..12987, 13114..13303,  
13442..13530, 13887..14155, 14193..14294

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o7.tm	Method	TBLASTX:Maize
Start	52	End	214
GI	none	Score	118
Exons	52..213, 53..214, 78..209		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o1.tm	Method	TBLASTX:Maize
Start	215	End	682
GI	none	Score	104
Exons	215..682, 248..595		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o1.tw	Method	TBLASTX:Wheat
Start	269	End	755
GI	none	Score	307
Exons	269..751, 312..755		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o2.ts	Method	TBLASTX:Soybean
Start	401	End	682
GI	none	Score	66
Exons	401..682, 402..599		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o6.tw	Method	TBLASTX:Wheat
Start	926	End	1280
GI	none	Score	79
Exons	926..1279, 962..1096, 1140..1280		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o5.tm	Method	TBLASTX:Maize
Start	1013	End	1333
GI	none	Score	209
Exons	1013..1333		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o6.tm	Method	TBLASTX:Maize
Start	1679	End	1975
GI	none	Score	100

Exons 1679..1975, 1788..1958

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o3.tw	Method	TBLASTX:Wheat
Start	1856	End	2219
GI	none	Score	86
Exons	1856..2215, 1857..2090, 2115..2219		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o3.np	Method	AAT/NAP
Start	6399	End	7166
GI	6539553	Score	1253
Exons	6399..7166		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o2.tm	Method	TBLASTX:Maize
Start	6724	End	11588
GI	none	Score	226
Exons	6724..7029, 6728..7027, 6729..7037, 11469..11588, 11477..11587		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o2.tw	Method	TBLASTX:Wheat
Start	6785	End	11588
GI	none	Score	192
Exons	6785..7114, 6786..7178, 6787..7161, 11334..11588, 11345..11572		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o5.np	Method	AAT/NAP
Start	11727	End	14542
GI	6069646	Score	451
Exons	11727..12716, 12999..13272, 14452..14542		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	29284	Seq. ID	OJ000250_12.0209.C33
Gene No.	60482	Strand	-
Start	1	End	14542
Name	OJ000250_12.0209.C33.o4.tm	Method	TBLASTX:Maize
Start	12006	End	12308
GI	none	Score	118

Exons 12006..12308, 12037..12240

Seq. No. 29284  
Gene No. 60482  
Start 1  
Name OJ000250\_12.0209.C33.o7.tw  
Start 12153  
GI none  
Exons 12153..12308, 12396..12533

Seq. ID OJ000250\_12.0209.C33  
Strand -  
End 14542  
Method TBLASTX:Wheat  
End 12533  
Score 79

Seq. No. 29284  
Gene No. 60482  
Start 1  
Name OJ000250\_12.0209.C33.o3.tm  
Start 12621  
GI none  
Exons 12621..13013, 12622..12915

Seq. ID OJ000250\_12.0209.C33  
Strand -  
End 14542  
Method TBLASTX:Maize  
End 13013  
Score 84

Seq. No. 29284  
Gene No. 60482  
Start 1  
Name OJ000250\_12.0209.C33.o4.tw  
Start 12696  
GI none  
Exons 12696..12821, 12834..13100, 12844..13098

Seq. ID OJ000250\_12.0209.C33  
Strand -  
End 14542  
Method TBLASTX:Wheat  
End 13100  
Score 133

Seq. No. 29285  
Gene No. 60483  
Start 295  
Name OJ000250\_12.0209.C34.o1.gs  
Start 295  
GI none  
Exons 295..592, 1695..1742

Seq. ID OJ000250\_12.0209.C34  
Strand +  
End 1742  
Method GENSCAN  
End 1742  
Score .76

Seq. No. 29285  
Gene No. 60484  
Start 3127  
Name OJ000250\_12.0209.C34.o1.np  
Start 3058  
GI 6016877  
Exons 3058..3453

Seq. ID OJ000250\_12.0209.C34  
Strand +  
End 3456  
Method AAT/NAP  
End 3453  
Score 191

GI Descrip. (AP000570) ESTs AU077642(E30706),AU077641(E30706) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 29285  
Gene No. 60484  
Start 3127  
Name OJ000250\_12.0209.C34.o2.gs  
Start 3127  
GI none  
Exons 3127..3456

Seq. ID OJ000250\_12.0209.C34  
Strand +  
End 3456  
Method GENSCAN  
End 3456  
Score 1

Seq. No. 29285  
Gene No. 60485  
Start 4934  
Name OJ000250\_12.0209.C34.o2.np

Seq. ID OJ000250\_12.0209.C34  
Strand +  
End 6179  
Method AAT/NAP

Start	4934	End	6179
GI	6721543	Score	125
Exons	4934..5064, 6120..6179		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60486	Strand	-
Start	3619	End	3674
Name	OJ000250_12.0209.C34.o1.gp	Method	AAT/GAP
Start	3619	End	3674
GI	3760640	Score	72
Exons	3619..3674		
GI Descrip.	4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60487	Strand	-
Start	4864	End	10248
Name	OJ000250_12.0209.C34.o1.ts	Method	TBLASTX:Soybean
Start	3309	End	3466
GI	none	Score	198
Exons	3309..3446, 3310..3459, 3359..3466		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60487	Strand	-
Start	4864	End	10248
Name	OJ000250_12.0209.C34.o1.tm	Method	TBLASTX:Maize
Start	3315	End	3456
GI	none	Score	207
Exons	3315..3452, 3316..3456, 3380..3454		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60487	Strand	-
Start	4864	End	10248
Name	OJ000250_12.0209.C34.o3.gs	Method	GENSCAN
Start	4864	End	10218
GI	none	Score	.55
Exons	4864..5010, 5602..5768, 5919..6121, 6126..6173, 6237..6368, 6459..6496, 6682..6864, 6957..7030, 7072..7214, 7287..7585, 7676..7730, 7785..8086, 8171..8507, 8613..8763, 9147..10218		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60487	Strand	-
Start	4864	End	10248
Name	OJ000250_12.0209.C34.o2.gp	Method	AAT/GAP
Start	5330	End	5783
GI	LIB3431-045-P1-N1-A10	Score	836
Exons	5330..5783		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	29285	Seq. ID	OJ000250_12.0209.C34
Gene No.	60487	Strand	-
Start	4864	End	10248
Name	OJ000250_12.0209.C34.o3.np	Method	AAT/NAP
Start	5887	End	10248
GI	5441880	Score	3025

Exons 5887..6121, 6237..6368, 6615..6712, 6957..7214, 7287..7585,  
8171..8507, 8613..8763, 9267..9582, 9841..9874, 10215..10248  
GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the  
predicted gene.; Similar to maize transposon MuDR mudrA protein.  
(AC003981) [Oryza sativa]

Seq. No. 29285 Seq. ID OJ000250\_12.0209.C34  
Gene No. 60487 Strand -  
Start 4864 End 10248  
Name OJ000250\_12.0209.C34.o3.gp Method AAT/GAP  
Start 6965 End 7459  
GI LIB3475-007-P1-K1-G8 Score 784  
Exons 6965..7214, 7287..7459  
GI Descrip. '5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945)  
corresponds to a region of the predicted gene.; Similar to maize  
transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'

Seq. No. 29285 Seq. ID OJ000250\_12.0209.C34  
Gene No. 60487 Strand -  
Start 4864 End 10248  
Name OJ000250\_12.0209.C34.o1.tw Method TBLASTX:Wheat  
Start 10087 End 10248  
GI none Score 66  
Exons 10087..10248, 10117..10236, 10148..10240

Seq. No. 29286 Seq. ID OJ000250\_12.0209.C35  
Gene No. 60488 Strand +  
Start 27 End 321  
Name OJ000250\_12.0209.C35.o1.gs Method GENSCAN  
Start 27 End 321  
GI none Score .48  
Exons 27..126, 227..321

Seq. No. 29287 Seq. ID OJ000250\_13.0208.C1  
Gene No. 60489 Strand -  
Start 1 End 156  
Name OJ000250\_13.0208.C1.o1.gp Method AAT/GAP  
Start 1 End 156  
GI none Score 295  
Exons 1..156

Seq. No. 29288 Seq. ID OJ000250\_13.0208.C3  
Gene No. 60490 Strand -  
Start 1 End 181  
Name OJ000250\_13.0208.C3.o1.gp Method AAT/GAP  
Start 1 End 181  
GI LIB3477-003-P1-K1-E9 Score 142  
Exons 1..47, 89..181  
GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
S 1 PRECURSOR (ORY S I)->gi\_1173557 (U31771) Ory s 1 [Oryza  
sativa]'

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
Gene No. 60491 Strand -  
Start 1 End 483  
Name OJ000250\_13.0208.C4.o1.np Method AAT/NAP  
Start 1 End 482

GI 4966352 Score 301  
 Exons 1..282, 383..482  
 GI Descrip. (AC006341) >F309.11 [Arabidopsis thaliana]

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
 Gene No. 60491 Strand -  
 Start 1 End 483  
 Name OJ000250\_13.0208.C4.o1.tc Method TBLASTX:Cress  
 Start 69 End 482  
 GI none Score 117  
 Exons 69..281, 79..264, 84..272, 402..482

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
 Gene No. 60491 Strand -  
 Start 1 End 483  
 Name OJ000250\_13.0208.C4.o1.ts Method TBLASTX:Soybean  
 Start 69 End 291  
 GI none Score 198  
 Exons 69..290, 79..291

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
 Gene No. 60491 Strand -  
 Start 1 End 483  
 Name OJ000250\_13.0208.C4.o1.tm Method TBLASTX:Maize  
 Start 69 End 483  
 GI none Score 255  
 Exons 69..308, 75..275, 76..306, 378..482, 405..482, 406..483

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
 Gene No. 60491 Strand -  
 Start 1 End 483  
 Name OJ000250\_13.0208.C4.o1.gs Method GENSCAN  
 Start 75 End 317  
 GI none Score .66  
 Exons 75..317

Seq. No. 29289 Seq. ID OJ000250\_13.0208.C4  
 Gene No. 60491 Strand -  
 Start 1 End 483  
 Name OJ000250\_13.0208.C4.o1.gp Method AAT/GAP  
 Start 135 End 483  
 GI 6055\_1.R1084 Score 423  
 Exons 135..305, 402..483  
 GI Descrip. '4966352/gb|AAD34683.1|AC006341\_11 7.0e-58 (AC006341) >F309.11  
 [Arabidopsis thaliana]'

Seq. No. 29290 Seq. ID OJ000250\_13.0208.C7  
 Gene No. 60492 Strand +  
 Start 161 End 597  
 Name OJ000250\_13.0208.C7.o1.gp Method AAT/GAP  
 Start 161 End 597  
 GI 4107129 Score 797  
 Exons 161..597  
 GI Descrip. 1330273/dbj|D85055|RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31  
 gene

Seq. No. 29290 Seq. ID OJ000250\_13.0208.C7

Gene No.	60492	Strand	+
Start	161	End	597
Name	OJ000250_13.0208.C7.o1.gs	Method	GENSCAN
Start	426	End	551
GI	none	Score	.42
Exons	426..551		
Seq. No.	29291	Seq. ID	OJ000250_13.0208.C11
Gene No.	60493	Strand	-
Start	419	End	601
Name	OJ000250_13.0208.C11.o1.gs	Method	GENSCAN
Start	419	End	601
GI	none	Score	.87
Exons	419..601		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13
Gene No.	60494	Strand	+
Start	1	End	596
Name	OJ000250_13.0208.C13.o1.np	Method	AAT/NAP
Start	1	End	596
GI	169705	Score	361
Exons	1..286, 415..596		
GI Descrip.	(M64737) ATP:pyruvate phosphotransferase [Ricinus communis]		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13
Gene No.	60494	Strand	+
Start	1	End	596
Name	OJ000250_13.0208.C13.o1.tc	Method	TBLASTX:Cress
Start	27	End	596
GI	none	Score	215
Exons	27..197, 49..285, 413..571, 414..596, 417..596		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13
Gene No.	60494	Strand	+
Start	1	End	596
Name	OJ000250_13.0208.C13.o1.tm	Method	TBLASTX:Maize
Start	27	End	214
GI	none	Score	125
Exons	27..209, 45..209, 49..210, 49..213, 50..214, 62..211		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13
Gene No.	60494	Strand	+
Start	1	End	596
Name	OJ000250_13.0208.C13.o2.ts	Method	TBLASTX:Soybean
Start	27	End	285
GI	none	Score	208
Exons	27..197, 31..207, 49..285		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13
Gene No.	60494	Strand	+
Start	1	End	596
Name	OJ000250_13.0208.C13.o1.gs	Method	GENSCAN
Start	52	End	187
GI	none	Score	.45
Exons	52..187		
Seq. No.	29292	Seq. ID	OJ000250_13.0208.C13



Gene No. 60494  
 Start 1  
 Name OJ000250\_13.0208.C13.o2.tm  
 Start 244  
 GI none  
 Exons 244..285, 413..595, 414..596

Strand +  
 End 596  
 Method TBLASTX:Maize  
 End 596  
 Score 54

Seq. No. 29292  
 Gene No. 60494  
 Start 1  
 Name OJ000250\_13.0208.C13.o1.ts  
 Start 413  
 GI none  
 Exons 413..586, 414..593

Seq. ID OJ000250\_13.0208.C13  
 Strand +  
 End 596  
 Method TBLASTX:Soybean  
 End 593  
 Score 231

Seq. No. 29293  
 Gene No. 60495  
 Start 2  
 Name OJ000250\_13.0208.C15.o1.tm  
 Start 2  
 GI none  
 Exons 2..46, 2..31, 76..150, 132..194, 184..324, 203..349, 364..426, 391..426

Seq. ID OJ000250\_13.0208.C15  
 Strand +  
 End 426  
 Method TBLASTX:Maize  
 End 426  
 Score 58

Seq. No. 29294  
 Gene No. 60496  
 Start 373  
 Name OJ000250\_13.0208.C19.o1.gs  
 Start 373  
 GI none  
 Exons 373..405

Seq. ID OJ000250\_13.0208.C19  
 Strand +  
 End 405  
 Method GENSCAN  
 End 405  
 Score .49

Seq. No. 29295  
 Gene No. 60497  
 Start 340  
 Name OJ000250\_13.0208.C20.o1.gs  
 Start 340  
 GI none  
 Exons 340..534

Seq. ID OJ000250\_13.0208.C20  
 Strand -  
 End 534  
 Method GENSCAN  
 End 534  
 Score .81

Seq. No. 29296  
 Gene No. 60498  
 Start 1  
 Name OJ000250\_13.0208.C21.o1.np  
 Start 1  
 GI 4544400  
 Exons 1..682

Seq. ID OJ000250\_13.0208.C21  
 Strand -  
 End 682  
 Method AAT/NAP  
 End 682  
 Score 131

GI Descrip. (AC007047) unknown protein [Arabidopsis thaliana]

Seq. No. 29296  
 Gene No. 60498  
 Start 1  
 Name OJ000250\_13.0208.C21.o1.gs  
 Start 20  
 GI none  
 Exons 20..541

Seq. ID OJ000250\_13.0208.C21  
 Strand -  
 End 682  
 Method GENSCAN  
 End 541  
 Score .64

Seq. No.	29297	Seq. ID	OJ000250_13.0208.C28
Gene No.	60499	Strand	+
Start	1	End	241
Name	OJ000250_13.0208.C28.o1.np	Method	AAT/NAP
Start	1	End	241
GI	6498423	Score	87
Exons	1..241		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	29298	Seq. ID	OJ000250_13.0208.C32
Gene No.	60500	Strand	+
Start	121	End	468
Name	OJ000250_13.0208.C32.o1.gs	Method	GENSCAN
Start	121	End	468
GI	none	Score	.52
Exons	121..468		

Seq. No.	29299	Seq. ID	OJ000250_13.0208.C33
Gene No.	60501	Strand	+
Start	1	End	452
Name	OJ000250_13.0208.C33.o1.np	Method	AAT/NAP
Start	1	End	452
GI	4680209	Score	236
Exons	1..452		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	29299	Seq. ID	OJ000250_13.0208.C33
Gene No.	60501	Strand	+
Start	1	End	452
Name	OJ000250_13.0208.C33.o1.tm	Method	TBLASTX:Maize
Start	1	End	450
GI	none	Score	78
Exons	1..99, 3..89, 100..216, 171..365, 196..450, 205..366		

Seq. No.	29299	Seq. ID	OJ000250_13.0208.C33
Gene No.	60501	Strand	+
Start	1	End	452
Name	OJ000250_13.0208.C33.o1.gs	Method	GENSCAN
Start	49	End	391
GI	none	Score	.47
Exons	49..391		

Seq. No.	29300	Seq. ID	OJ000250_13.0208.C34
Gene No.	60502	Strand	+
Start	1	End	644
Name	OJ000250_13.0208.C34.o1.np	Method	AAT/NAP
Start	1	End	644
GI	3777527	Score	235
Exons	1..118, 203..644		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	29300	Seq. ID	OJ000250_13.0208.C34
Gene No.	60502	Strand	+
Start	1	End	644
Name	OJ000250_13.0208.C34.o1.ts	Method	TBLASTX:Soybean
Start	366	End	588
GI	5509260	Score	210

Exons 366..587, 406..588, 460..588  
GI Descrip. -

Seq. No.	29301	Seq. ID	OJ000250_13.0208.C35
Gene No.	60503	Strand	-
Start	279	End	405
Name	OJ000250_13.0208.C35.o1.gs	Method	GENSCAN
Start	279	End	405
GI	none	Score	.73
Exons	279..405		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o1.np	Method	AAT/NAP
Start	1	End	652
GI	6692748	Score	321
Exons	1..449, 542..652		
GI Descrip.	(AC012679) unknown protein [Arabidopsis thaliana]		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o1.tc	Method	TBLASTX:Cress
Start	80	End	433
GI	none	Score	73
Exons	80..148, 203..268, 208..261, 296..433, 298..432		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o1.gs	Method	GENSCAN
Start	84	End	449
GI	none	Score	.96
Exons	84..449		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o2.tm	Method	TBLASTX:Maize
Start	167	End	277
GI	none	Score	191
Exons	167..277, 169..276		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o1.ts	Method	TBLASTX:Soybean
Start	176	End	651
GI	none	Score	92
Exons	176..253, 307..390, 308..448, 562..651		

Seq. No.	29302	Seq. ID	OJ000250_13.0208.C37
Gene No.	60504	Strand	+
Start	1	End	652
Name	OJ000250_13.0208.C37.o1.tm	Method	TBLASTX:Maize
Start	283	End	651

GI	none	Score	252
Exons	283..447, 284..448, 286..450, 558..647, 559..651, 582..650		303..449, 335..457, 550..648,

Seq. No.	29303	Seq. ID	OJ000250_13.0208.C38
Gene No.	60505	Strand	+
Start	680	End	757
Name	OJ000250_13.0208.C38.o1.gs	Method	GENSCAN
Start	680	End	757
GI	none	Score	.6
Exons	680..757		

Seq. No.	29304	Seq. ID	OJ000250_13.0208.C40
Gene No.	60506	Strand	-
Start	225	End	358
Name	OJ000250_13.0208.C40.o1.gs	Method	GENSCAN
Start	225	End	358
GI	none	Score	.63
Exons	225..358		

Seq. No.	29305	Seq. ID	OJ000250_13.0208.C41
Gene No.	60507	Strand	+
Start	1	End	499
Name	OJ000250_13.0208.C41.o1.gp	Method	AAT/GAP
Start	1	End	499
GI	none	Score	728
Exons	1..54, 180..499		

Seq. No.	29305	Seq. ID	OJ000250_13.0208.C41
Gene No.	60507	Strand	+
Start	1	End	499
Name	OJ000250_13.0208.C41.o1.gs	Method	GENSCAN
Start	180	End	398
GI	none	Score	.82
Exons	180..398		

Seq. No.	29306	Seq. ID	OJ000250_13.0208.C42
Gene No.	60508	Strand	+
Start	441	End	588
Name	OJ000250_13.0208.C42.o1.gs	Method	GENSCAN
Start	441	End	588
GI	none	Score	.55
Exons	441..588		

Seq. No.	29307	Seq. ID	OJ000250_13.0208.C49
Gene No.	60509	Strand	+
Start	810	End	1079
Name	OJ000250_13.0208.C49.o1.gs	Method	GENSCAN
Start	810	End	1079
GI	none	Score	.77
Exons	810..1079		

Seq. No.	29308	Seq. ID	OJ000250_13.0208.C55
Gene No.	60510	Strand	+
Start	228	End	371
Name	OJ000250_13.0208.C55.o1.gs	Method	GENSCAN
Start	228	End	371

GI	none	Score	.89
Exons	228..371		
Seq. No.	29309	Seq. ID	OJ000250_13.0208.C56
Gene No.	60511	Strand	+
Start	177	End	324
Name	OJ000250_13.0208.C56.o1.gs	Method	GENSCAN
Start	177	End	324
GI	none	Score	.8
Exons	177..324		

Seq. No.	29309	Seq. ID	OJ000250_13.0208.C56
Gene No.	60512	Strand	-
Start	108	End	348
Name	OJ000250_13.0208.C56.o1.np	Method	AAT/NAP
Start	108	End	348
GI	5295967	Score	142
Exons	108..348		
GI Descrip.	(AB026295) Similar to Lycopersicon esculentum pT53 mRNA for wound-repressed gene, partial cds.(X59883) [Oryza sativa]		

Seq. No.	29310	Seq. ID	OJ000250_13.0208.C60
Gene No.	60513	Strand	+
Start	1	End	335
Name	OJ000250_13.0208.C60.o1.np	Method	AAT/NAP
Start	1	End	311
GI	6630685	Score	249
Exons	1..311		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	29310	Seq. ID	OJ000250_13.0208.C60
Gene No.	60513	Strand	+
Start	1	End	335
Name	OJ000250_13.0208.C60.o1.tm	Method	TBLASTX:Maize
Start	60	End	293
GI	none	Score	263
Exons	60..293, 65..292		

Seq. No.	29310	Seq. ID	OJ000250_13.0208.C60
Gene No.	60513	Strand	+
Start	1	End	335
Name	OJ000250_13.0208.C60.o1.ts	Method	TBLASTX:Soybean
Start	72	End	335
GI	none	Score	192
Exons	72..335, 77..238		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60514	Strand	+
Start	1	End	260
Name	OJ000250_13.0208.C64.o1.gp	Method	AAT/GAP
Start	1	End	260
GI	40932_1.R1084	Score	507
Exons	1..260		
GI Descrip.	5002212/gb AAD37363.1 AF144078_1 4.0e-10 (AF144078) alpha-xylosidase precursor [Arabidopsis thaliana] >gi_5734722_gb_AAD49987.1_AC008075_20 (AC008075) Identical to		

gb\_AF144078 alpha-xylosidase precursor from Arabidopsis thaliana. ESTs gb\_W43892, gb\_N96165, gb\_T46694, gb\_N37141, gb\_R64965, gb\_R90271, gb\_AA651443, gb\_AA712305, gb\_T04189 and gb\_AA597852 c<sup>1</sup>

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o1.np	Method	AAT/NAP
Start	1	End	1625
GI	4163997	Score	1937
Exons	1..1625		
GI Descrip.	(AF087483) alpha-xylosidase precursor [Arabidopsis thaliana]		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o1.gs	Method	GENSCAN
Start	57	End	1536
GI	none	Score	.8
Exons	57..1536		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o2.tm	Method	TBLASTX:Maize
Start	57	End	475
GI	none	Score	153
Exons	57..140, 58..315, 58..474, 62..475		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o3.tc	Method	TBLASTX:Cress
Start	88	End	315
GI	none	Score	78
Exons	88..315, 128..268		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o1.ts	Method	TBLASTX:Soybean
Start	100	End	1375
GI	none	Score	92
Exons	100..1284, 101..256, 347..1285, 1316..1375, 1324..1374		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625
Name	OJ000250_13.0208.C64.o1.tc	Method	TBLASTX:Cress
Start	349	End	1092
GI	none	Score	45
Exons	349..411, 350..400, 403..1092, 404..1078		

Seq. No.	29311	Seq. ID	OJ000250_13.0208.C64
Gene No.	60515	Strand	-
Start	1	End	1625

Name OJ000250\_13.0208.C64.o2.gp Method AAT/GAP  
 Start 422 End 865  
 GI 2311478 Score 796  
 Exons 422..865  
 GI Descrip. 5002212/gb|AAD37363.1|AF144078\_1 1.0e-46 (AF144078)  
 alpha-xylosidase precursor [Arabidopsis thaliana]  
 >gi\_5734722\_gb\_AAD49987.1\_AC008075\_20 (AC008075) Identical to  
 gb\_AF144078\_alpha-xylosidase precursor from Arabidopsis  
 thaliana. ESTs gb\_W43892, gb\_N96165, gb\_T46694, gb\_N37141,  
 gb\_R64965, gb\_R90271, gb\_AA651443, gb\_AA712305, gb\_T04189 and  
 gb\_AA597852 c

Seq. No. 29311 Seq. ID OJ000250\_13.0208.C64  
 Gene No. 60515 Strand -  
 Start 1 End 1625  
 Name OJ000250\_13.0208.C64.o1.tm Method TBLASTX:Maize  
 Start 515 End 1528  
 GI none Score 1314  
 Exons 515..1429, 515..634, 517..1428, 1033..1431, 1040..1429,  
 1429..1527, 1430..1528

Seq. No. 29311 Seq. ID OJ000250\_13.0208.C64  
 Gene No. 60515 Strand -  
 Start 1 End 1625  
 Name OJ000250\_13.0208.C64.o2.tc Method TBLASTX:Cress  
 Start 1150 End 1624  
 GI none Score 133  
 Exons 1150..1284, 1151..1282, 1153..1284, 1306..1623, 1307..1624

Seq. No. 29312 Seq. ID OJ000250\_13.0208.C65  
 Gene No. 60516 Strand +  
 Start 74 End 541  
 Name OJ000250\_13.0208.C65.o1.gs Method GENSCAN  
 Start 74 End 541  
 GI none Score .95  
 Exons 74..541

Seq. No. 29312 Seq. ID OJ000250\_13.0208.C65  
 Gene No. 60517 Strand +  
 Start 15520 End 29001  
 Name OJ000250\_13.0208.C65.o4.gs Method GENSCAN  
 Start 15520 End 21367  
 GI none Score .53  
 Exons 15520..15665, 18248..18387, 18598..18676, 19808..19913,  
 20614..20775, 20940..21084, 21339..21367

Seq. No. 29312 Seq. ID OJ000250\_13.0208.C65  
 Gene No. 60517 Strand +  
 Start 15520 End 29001  
 Name OJ000250\_13.0208.C65.o1.gp Method AAT/GAP  
 Start 20782 End 27014  
 GI 6055 1.R1084 Score 1679  
 Exons 20782..21084, 25967..26082, 26230..26475, 26667..26747,  
 26844..27014  
 GI Descrip. '4266352/gb|AAD34683.1|AC006341\_11 7.0e-58 (AC006341) >F309.11  
 [Arabidopsis thaliana]'

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60517	Strand	+
Start	15520	End	29001
Name	OJ000250_13.0208.C65.o2.np	Method	AAT/NAP
Start	20911	End	27486
GI	4966352	Score	1148
Exons	20911..21093, 25967..26082, 26230..26475, 26667..26766, 26867..27074, 27148..27486		
GI Descrip.	(AC006341) >F309.11 [Arabidopsis thaliana]		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60517	Strand	+
Start	15520	End	29001
Name	OJ000250_13.0208.C65.o5.gs	Method	GENSCAN
Start	22076	End	22294
GI	none	Score	.83
Exons	22076..22294		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60517	Strand	+
Start	15520	End	29001
Name	OJ000250_13.0208.C65.o7.gs	Method	GENSCAN
Start	26032	End	29001
GI	none	Score	.9
Exons	26032..26082, 26230..26475, 26844..27074, 27114..27486, 28952..29001		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60518	Strand	-
Start	1	End	4135
Name	OJ000250_13.0208.C65.o1.np	Method	AAT/NAP
Start	1	End	2874
GI	5002212	Score	1537
Exons	1..576, 1522..2180, 2639..2874		
GI Descrip.	(AF144078) alpha-xylosidase precursor [Arabidopsis thaliana] gi 5734722 gb AAD49987.1 AC008075_20 (AC008075) Identical to gb AF144078 alpha-xylosidase precursor from Arabidopsis thaliana. ESTs gb W43892, gb N96165, gb T46694, gb N37141, gb R64965, gb R90271, gb AA651443, gb AA712305, gb T04189 and gb AA597852 c...		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60518	Strand	-
Start	1	End	4135
Name	OJ000250_13.0208.C65.o2.gs	Method	GENSCAN
Start	1454	End	4135
GI	none	Score	.65
Exons	1454..2212, 2639..2935, 3745..3956, 4114..4135		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60519	Strand	-
Start	23145	End	24439
Name	OJ000250_13.0208.C65.o6.gs	Method	GENSCAN
Start	23145	End	24439
GI	none	Score	.93
Exons	23145..23320, 23799..23991, 24302..24439		



Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60520	Strand	-
Start	27278	End	27889
Name	OJ000250_13.0208.C65.o2.gp	Method	AAT/GAP
Start	27278	End	27889
GI	5142 1.R1084	Score	1193
Exons	27278..27889		
GI Descrip.	'4835757/gb AAD30224.1 AC007202_6 6.0e-18 (AC007202) EST gb_AA404917 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o2.tm	Method	TBLASTX:Maize
Start	68	End	296
GI	none	Score	163
Exons	68..196, 69..197, 73..198, 74..199, 197..295, 198..296		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o1.tc	Method	TBLASTX:Cress
Start	74	End	602
GI	none	Score	388
Exons	74..577, 75..590, 360..602		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o3.ts	Method	TBLASTX:Soybean
Start	74	End	239
GI	none	Score	146
Exons	74..238, 75..239		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o3.tm	Method	TBLASTX:Maize
Start	382	End	1715
GI	none	Score	177
Exons	382..426, 383..577, 384..578, 1513..1596, 1520..1714, 1521..1715		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o2.ts	Method	TBLASTX:Soybean
Start	461	End	1771
GI	none	Score	120
Exons	461..577, 480..581, 1514..1666, 1520..1771, 1521..1769		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o3.tc	Method	TBLASTX:Cress
Start	1520	End	1837
GI	none	Score	307
Exons	1520..1837, 1521..1832		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o4.tm	Method	TBLASTX:Maize
Start	24501	End	26086
GI	none	Score	105
Exons	24501..24578, 24524..24577, 25965..26084, 25966..26082, 25969..26085, 25970..26086		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o4.ts	Method	TBLASTX:Soybean
Start	26230	End	27011
GI	none	Score	179
Exons	26230..26475, 26247..26480, 26268..26480, 26667..26747, 26868..27011, 26870..27010, 26877..27011		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o2.tc	Method	TBLASTX:Cress
Start	26361	End	27366
GI	none	Score	124
Exons	26361..26480, 26389..26475, 26667..26747, 26868..27080, 26877..27065, 26885..27070, 27126..27359, 27148..27366		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o1.tm	Method	TBLASTX:Maize
Start	26394	End	27497
GI	none	Score	136
Exons	26394..26483, 26395..26475, 26666..26743, 26667..26744, 26841..27080, 26843..27073, 27126..27497, 27148..27495		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o1.ts	Method	TBLASTX:Soybean
Start	27012	End	27477
GI	none	Score	64
Exons	27012..27080, 27126..27476, 27148..27477		

Seq. No.	29312	Seq. ID	OJ000250_13.0208.C65
Gene No.	60521	Strand	-
Start	28464	End	28653
Name	OJ000250_13.0208.C65.o3.np	Method	AAT/NAP
Start	28464	End	28653
GI	6069646	Score	81
Exons	28464..28653		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	29313	Seq. ID	OJ000250_13.0208.C66
Gene No.	60522	Strand	-
Start	1023	End	1063
Name	OJ000250_13.0208.C66.o1.gs	Method	GENSCAN
Start	1023	End	1063
GI	none	Score	.4
Exons	1023..1063		
Seq. No.	29314	Seq. ID	OJ000250_13.0208.C67
Gene No.	60523	Strand	+
Start	577	End	922
Name	OJ000250_13.0208.C67.o1.gp	Method	AAT/GAP
Start	577	End	922
GI	uC-osrocyp002b09a1	Score	477
Exons	577..922		
GI Descrip.	'4768980/gb AAD29703.1 AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa].'		
Seq. No.	29314	Seq. ID	OJ000250_13.0208.C67
Gene No.	60524	Strand	-
Start	334	End	415
Name	OJ000250_13.0208.C67.o1.gs	Method	GENSCAN
Start	334	End	415
GI	none	Score	.68
Exons	334..415		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60525	Strand	+
Start	16223	End	16778
Name	OJ000250_13.0208.C68.o3.gs	Method	GENSCAN
Start	16223	End	16778
GI	none	Score	.97
Exons	16223..16234, 16254..16778		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60526	Strand	-
Start	1	End	255
Name	OJ000250_13.0208.C68.o1.gp	Method	AAT/GAP
Start	1	End	255
GI	uC-osrocyp002b09b1	Score	498
Exons	1..255		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60527	Strand	-
Start	3932	End	16756
Name	OJ000250_13.0208.C68.o2.gp	Method	AAT/GAP
Start	3831	End	5132
GI	none	Score	1274
Exons	3831..4150, 4276..4581, 5100..5132		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60527	Strand	-
Start	3932	End	16756
Name	OJ000250_13.0208.C68.o2.gs	Method	GENSCAN

Start 3932 End 15729  
 GI none Score .54  
 Exons 3932..4150, 4276..4581, 5100..5237, 5526..5801, 5882..6103,  
 6862..6950, 6989..7070, 7098..7435, 7659..7770, 8260..8385,  
 8905..8994, 9076..9108, 9565..9672, 10248..10350, 11998..12192,  
 13496..13560, 13869..14696, 15418..15729

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60527 Strand -  
 Start 3932 End 16756  
 Name OJ000250\_13.0208.C68.o1.np Method AAT/NAP  
 Start 13581 End 16756  
 GI 2130141 Score 971  
 Exons 13581..15059, 15151..15412, 16698..16756  
 GI Descrip. mudrA protein - maize transposon MuDR gi|540581 (M76978) mudrA  
 [Zea mays] gi|595816 (U14597) mudrA gene product [Zea mays]

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60528 Strand -  
 Start 17398 End 24209  
 Name OJ000250\_13.0208.C68.o1.tm Method TBLASTX:Maize  
 Start 4019 End 5792  
 GI none Score 100  
 Exons 4019..4153, 4068..4154, 4270..4584, 4271..4315, 4352..4582,  
 4369..4584, 5562..5669, 5688..5792

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60528 Strand -  
 Start 17398 End 24209  
 Name OJ000250\_13.0208.C68.o1.tc Method TBLASTX:Cress  
 Start 4311 End 5147  
 GI none Score 185  
 Exons 4311..4583, 4327..4584, 4352..4582, 5082..5147

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60528 Strand -  
 Start 17398 End 24209  
 Name OJ000250\_13.0208.C68.o1.ts Method TBLASTX:Soybean  
 Start 4363 End 6005  
 GI none Score 127  
 Exons 4363..4470, 4498..4569, 4522..4584, 5097..5210, 5097..5201,  
 5098..5211, 5550..5783, 5581..5772, 5879..6004, 5880..6005

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60528 Strand -  
 Start 17398 End 24209  
 Name OJ000250\_13.0208.C68.o8.tm Method TBLASTX:Maize  
 Start 5100 End 6074  
 GI none Score 208  
 Exons 5100..5207, 5877..6071, 5880..5927, 5881..6069, 5882..6070,  
 5970..6074

Seq. No. 29315 Seq. ID OJ000250\_13.0208.C68  
 Gene No. 60528 Strand -  
 Start 17398 End 24209  
 Name OJ000250\_13.0208.C68.o5.ts Method TBLASTX:Soybean  
 Start 6869 End 7203

GI	none	Score	84
Exons	6869..6991, 6876..6986, 6877..6996, 6878..7000, 7090..7203, 7095..7202		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o5.tm	Method	TBLASTX:Maize
Start	6972	End	7330
GI	none	Score	52
Exons	6972..7007, 6976..7005, 7092..7310, 7096..7326, 7098..7328, 7139..7330		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o2.tm	Method	TBLASTX:Maize
Start	14064	End	14690
GI	none	Score	73
Exons	14064..14339, 14065..14193, 14103..14327, 14355..14420, 14356..14409, 14421..14690, 14446..14685		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o7.tm	Method	TBLASTX:Maize
Start	14694	End	15045
GI	none	Score	133
Exons	14694..15044, 14746..15045		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o2.tc	Method	TBLASTX:Cress
Start	14817	End	15325
GI	none	Score	76
Exons	14817..15059, 15148..15321, 15167..15325		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o4.gs	Method	GENSCAN
Start	17398	End	24209
GI	none	Score	.47
Exons	17398..19419, 19522..20131, 20208..20935, 20999..23380, 23434..23640, 23981..24024, 24140..24209		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o2.np	Method	AAT/NAP
Start	17401	End	22857
GI	6498441	Score	7146
Exons	17401..17682, 17776..19173, 19345..20068, 20244..20378, 20562..20935, 20999..21462, 21793..22857		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type		

## retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o7.tw	Method	TBLASTX:Wheat
Start	17410	End	18012
GI	none	Score	77
Exons	17410..17535, 17414..17536, 17723..17872, 17728..18012, 17826..17879, 17909..18007, 17949..18008		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o3.tw	Method	TBLASTX:Wheat
Start	18013	End	18394
GI	none	Score	238
Exons	18013..18393, 18044..18394		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o4.tm	Method	TBLASTX:Maize
Start	18199	End	18531
GI	none	Score	79
Exons	18199..18411, 18208..18531, 18221..18502		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o9.tw	Method	TBLASTX:Wheat
Start	18724	End	19036
GI	none	Score	67
Exons	18724..18984, 18860..19036		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o3.ts	Method	TBLASTX:Soybean
Start	18784	End	19350
GI	5666795	Score	68
Exons	18784..18984, 19039..19173, 19252..19350		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o4.tw	Method	TBLASTX:Wheat
Start	19039	End	19497
GI	none	Score	84
Exons	19039..19188, 19040..19162, 19232..19408, 19249..19473, 19276..19497		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o8.tw	Method	TBLASTX:Wheat

Start	19855	End	20142
GI	none	Score	60
Exons	19855..20142, 20048..20137		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o2.ts	Method	TBLASTX:Soybean
Start	19906	End	20278
GI	none	Score	86
Exons	19906..20136, 20132..20278, 20136..20261		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o6.tm	Method	TBLASTX:Maize
Start	20029	End	20414
GI	none	Score	194
Exons	20029..20223, 20135..20413, 20136..20414		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o5.tw	Method	TBLASTX:Wheat
Start	20153	End	20459
GI	none	Score	182
Exons	20153..20458, 20166..20456, 20361..20459		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o3.tm	Method	TBLASTX:Maize
Start	20441	End	20797
GI	none	Score	124
Exons	20441..20746, 20441..20797, 20646..20762		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o1.tw	Method	TBLASTX:Wheat
Start	20465	End	20927
GI	none	Score	216
Exons	20465..20926, 20471..20926, 20664..20927		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o4.ts	Method	TBLASTX:Soybean
Start	20522	End	20887
GI	none	Score	117
Exons	20522..20656, 20663..20887		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o2.tw	Method	TBLASTX:Wheat
Start	21092	End	21578

GI	none	Score	177
Exons	21092..21577, 21123..21383, 21405..21578		
Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o6.tw	Method	TBLASTX:Wheat
Start	22316	End	22705
GI	none	Score	99
Exons	22316..22573, 22350..22589, 22556..22654, 22557..22649, 22661..22705		

Seq. No.	29315	Seq. ID	OJ000250_13.0208.C68
Gene No.	60528	Strand	-
Start	17398	End	24209
Name	OJ000250_13.0208.C68.o9.tm	Method	TBLASTX:Maize
Start	22418	End	22666
GI	none	Score	106
Exons	22418..22666, 22419..22664		

Seq. No.	29316	Seq. ID	OJ000250_13.0208.C69
Gene No.	60529	Strand	+
Start	880	End	944
Name	OJ000250_13.0208.C69.o1.gp	Method	AAT/GAP
Start	880	End	944
GI	uC-osflcyp158c04a1	Score	91
Exons	880..944		
GI Descrip.	'4581164/gb AAD24647.1 AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	29316	Seq. ID	OJ000250_13.0208.C69
Gene No.	60530	Strand	-
Start	939	End	2352
Name	OJ000250_13.0208.C69.o1.gs	Method	GENSCAN
Start	939	End	2352
GI	none	Score	.69
Exons	939..1135, 2271..2352		

Seq. No.	29317	Seq. ID	OJ000250_13.0208.C70
Gene No.	60531	Strand	+
Start	66	End	602
Name	OJ000250_13.0208.C70.o1.gs	Method	GENSCAN
Start	66	End	602
GI	none	Score	.98
Exons	66..234, 362..602		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477
Name	OJ000250_13.0208.C74.o1.gs	Method	GENSCAN
Start	276	End	2462
GI	none	Score	.97
Exons	276..2462		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477



Name	OJ000250_13.0208.C74.o2.ts	Method	TBLASTX:Soybean
Start	465	End	758
GI	none	Score	180
Exons	465..758		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477
Name	OJ000250_13.0208.C74.o2.np	Method	AAT/NAP
Start	1417	End	2477
GI	3645899	Score	710
Exons	1417..2477		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477
Name	OJ000250_13.0208.C74.o1.tw	Method	TBLASTX:Wheat
Start	1839	End	2402
GI	none	Score	146
Exons	1839..2075, 1845..2057, 2112..2387, 2115..2402, 2300..2401		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477
Name	OJ000250_13.0208.C74.o1.tm	Method	TBLASTX:Maize
Start	1968	End	2438
GI	none	Score	435
Exons	1968..2438, 2009..2437		

Seq. No.	29318	Seq. ID	OJ000250_13.0208.C74
Gene No.	60532	Strand	+
Start	276	End	2477
Name	OJ000250_13.0208.C74.o1.ts	Method	TBLASTX:Soybean
Start	2022	End	2423
GI	none	Score	63
Exons	2022..2114, 2112..2423, 2225..2422		

Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60533	Strand	+
Start	1	End	1987
Name	OJ000250_13.0208.C75.o1.np	Method	AAT/NAP
Start	1	End	1984
GI	6630685	Score	1723
Exons	1..1984		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60533	Strand	+
Start	1	End	1987
Name	OJ000250_13.0208.C75.o1.gs	Method	GENSCAN
Start	54	End	1987
GI	none	Score	.57
Exons	54..1987		

Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
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Gene No.	60534	Strand	+
Start	3562	End	4070
Name	OJ000250_13.0208.C75.o1.gp	Method	AAT/GAP
Start	3562	End	4070
GI	uC-osrocyp002b09b1	Score	975
Exons	3562..4070		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60535	Strand	+
Start	12452	End	13500
Name	OJ000250_13.0208.C75.o3.gp	Method	AAT/GAP
Start	12452	End	13500
GI	2310781	Score	693
Exons	12452..12526, 12777..12902, 13148..13229, 13359..13500		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60536	Strand	-
Start	4282	End	4627
Name	OJ000250_13.0208.C75.o2.gp	Method	AAT/GAP
Start	4282	End	4627
GI	uC-osrocyp002b09a1	Score	477
Exons	4282..4627		
GI Descrip.	'4768980/gb AAD29703.1 AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa]'		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o1.ts	Method	TBLASTX:Soybean
Start	388	End	957
GI	5509260	Score	649
Exons	388..957, 428..955		
GI Descrip.	-		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o1.tw	Method	TBLASTX:Wheat
Start	473	End	940
GI	none	Score	82
Exons	473..562, 479..556, 596..940, 613..741, 772..939		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o2.tc	Method	TBLASTX:Cress
Start	572	End	838
GI	none	Score	244
Exons	572..838, 577..837		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o2.tm	Method	TBLASTX:Maize
Start	619	End	1066

GI	none	Score	526
Exons	619..1056, 620..1066, 774..1058		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o3.ts	Method	TBLASTX:Soybean
Start	1099	End	1327
GI	none	Score	192
Exons	1099..1266, 1103..1327		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o2.tw	Method	TBLASTX:Wheat
Start	1127	End	1543
GI	none	Score	103
Exons	1127..1279, 1307..1543, 1318..1542		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o1.tc	Method	TBLASTX:Cress
Start	1307	End	1966
GI	none	Score	119
Exons	1307..1480, 1319..1489, 1601..1735, 1753..1872, 1754..1966		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o1.tm	Method	TBLASTX:Maize
Start	1310	End	1966
GI	none	Score	689
Exons	1310..1966, 1318..1965		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o2.ts	Method	TBLASTX:Soybean
Start	1328	End	2008
GI	none	Score	252
Exons	1328..1717, 1522..1632, 1745..2008, 1750..1911		
Seq. No.	29319	Seq. ID	OJ000250_13.0208.C75
Gene No.	60537	Strand	-
Start	9228	End	11843
Name	OJ000250_13.0208.C75.o3.gs	Method	GENSCAN
Start	9228	End	11843
GI	none	Score	.63
Exons	9228..9356, 10958..11034, 11148..11227, 11725..11843		
Seq. No.	29320	Seq. ID	OJ000250_13.0208.C76
Gene No.	60538	Strand	+
Start	246	End	416
Name	OJ000250_13.0208.C76.o1.gs	Method	GENSCAN
Start	246	End	416
GI	none	Score	.93

Exons 246..416

Seq. No.	29321	Seq. ID	OJ000250_13.0208.C77
Gene No.	60539	Strand	+
Start	1143	End	5414
Name	OJ000250_13.0208.C77.o1.gs	Method	GENSCAN
Start	1143	End	5207
GI	none	Score	.57
Exons	1143..1320, 2077..2278, 3936..4017, 4135..4512, 4599..5207		

Seq. No.	29321	Seq. ID	OJ000250_13.0208.C77
Gene No.	60539	Strand	+
Start	1143	End	5414
Name	OJ000250_13.0208.C77.o1.np	Method	AAT/NAP
Start	2089	End	3141
GI	4680186	Score	246
Exons	2089..2246, 2750..3141		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29321	Seq. ID	OJ000250_13.0208.C77
Gene No.	60539	Strand	+
Start	1143	End	5414
Name	OJ000250_13.0208.C77.o2.np	Method	AAT/NAP
Start	2840	End	5414
GI	6069653	Score	910
Exons	2840..2925, 4142..5072, 5265..5414		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60540	Strand	+
Start	625	End	762
Name	OJ000250_13.0208.C78.o1.gs	Method	GENSCAN
Start	625	End	762
GI	none	Score	.85
Exons	625..762		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60541	Strand	+
Start	1997	End	2278
Name	OJ000250_13.0208.C78.o1.gp	Method	AAT/GAP
Start	1997	End	2278
GI	none	Score	560
Exons	1997..2278		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o2.gs	Method	GENSCAN
Start	1684	End	4777
GI	none	Score	.92
Exons	1684..1752, 2334..2516, 2620..2816, 2927..3292, 3510..3908, 3997..4403, 4497..4777		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o2.tm	Method	TBLASTX:Maize

Start	2264	End	2480
GI	none	Score	70
Exons	2264..2314, 2271..2315, 2272..2313, 2274..2315, 2294..2419, 2317..2415, 2319..2480, 2319..2441		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o1.np	Method	AAT/NAP
Start	2268	End	5007
GI	6692748	Score	692
Exons	2268..2516, 2580..2834, 2927..3292, 3510..3749, 4959..5007		
GI Descrip.	(AC012679) unknown protein [Arabidopsis thaliana]		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o1.tm	Method	TBLASTX:Maize
Start	2619	End	3093
GI	none	Score	62
Exons	2619..2678, 2620..2682, 2623..2679, 2665..2817, 2672..2794, 2672..2818, 2674..2826, 2919..3041, 2926..3090, 2927..3073, 2928..3092, 2929..3093		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o1.ts	Method	TBLASTX:Soybean
Start	2722	End	3200
GI	none	Score	92
Exons	2722..2814, 2928..3068, 3123..3200		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o1.tc	Method	TBLASTX:Cress
Start	2943	End	3718
GI	none	Score	76
Exons	2943..3080, 3108..3173, 3228..3296, 3514..3642, 3521..3640, 3647..3718		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o3.tm	Method	TBLASTX:Maize
Start	3099	End	3209
GI	none	Score	119
Exons	3099..3209, 3100..3207		

Seq. No.	29322	Seq. ID	OJ000250_13.0208.C78
Gene No.	60542	Strand	-
Start	1684	End	5007
Name	OJ000250_13.0208.C78.o2.gp	Method	AAT/GAP
Start	4620	End	4914
GI	none	Score	541
Exons	4620..4914		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.gs	Method	GENSCAN
Start	272	End	13956
GI	none	Score	.74
Exons	272..307, 601..660, 2596..2668, 2687..2827, 3151..3326, 4354..4388, 4635..4748, 7526..7587, 9606..9808, 12874..12984, 13022..13133, 13223..13956		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.tw	Method	TBLASTX:Wheat
Start	12919	End	13099
GI	none	Score	207
Exons	12919..13095, 12950..13099		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.tc	Method	TBLASTX:Cress
Start	12943	End	13359
GI	none	Score	310
Exons	12943..13137, 12944..13135, 13224..13355, 13225..13359		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.ts	Method	TBLASTX:Soybean
Start	12943	End	13359
GI	none	Score	316
Exons	12943..13137, 12944..13132, 13217..13318, 13221..13358, 13222..13359		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.np	Method	AAT/NAP
Start	12944	End	13938
GI	4204277	Score	504
Exons	12944..13133, 13223..13479, 13634..13729, 13798..13938		
GI Descrip.	(AC004146) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29323	Seq. ID	OJ000250_13.0208.C79
Gene No.	60543	Strand	+
Start	272	End	13956
Name	OJ000250_13.0208.C79.o1.tm	Method	TBLASTX:Maize
Start	12958	End	13358
GI	none	Score	91
Exons	12958..13047, 12958..13131, 12959..13132, 13149..13358, 13222..13350		

Seq. No.	29324	Seq. ID	OJ000250_13.0208.C81
Gene No.	60544	Strand	+
Start	66	End	1073
Name	OJ000250_13.0208.C81.o1.gs	Method	GENSCAN

Start 66  
 GI none  
 Exons 66..186, 964..1073

End 1073  
 Score .52

Seq. No. 29324  
 Gene No. 60545  
 Start 2419  
 Name OJ000250\_13.0208.C81.o2.gs  
 Start 2419  
 GI none  
 Exons 2419..2451, 2711..2794

Seq. ID OJ000250\_13.0208.C81  
 Strand -  
 End 2794  
 Method GENSCAN  
 End 2794  
 Score .81

Seq. No. 29325  
 Gene No. 60546  
 Start 87  
 Name OJ000250\_13.0208.C85.o1.gs  
 Start 87  
 GI none  
 Exons 87..434

Seq. ID OJ000250\_13.0208.C85  
 Strand +  
 End 434  
 Method GENSCAN  
 End 434  
 Score .88

Seq. No. 29326  
 Gene No. 60547  
 Start 310  
 Name OJ000250\_13.0208.C87.o1.gs  
 Start 310  
 GI none  
 Exons 310..391

Seq. ID OJ000250\_13.0208.C87  
 Strand +  
 End 391  
 Method GENSCAN  
 End 391  
 Score .65

Seq. No. 29327  
 Gene No. 60548  
 Start 1  
 Name OJ000250\_15.0222.C1.o1.np  
 Start 1  
 GI 6721547  
 Exons 1..484

Seq. ID OJ000250\_15.0222.C1  
 Strand -  
 End 484  
 Method AAT/NAP  
 End 484  
 Score 319

GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No. 29327  
 Gene No. 60548  
 Start 1  
 Name OJ000250\_15.0222.C1.o1.gs  
 Start 151  
 GI none  
 Exons 151..422

Seq. ID OJ000250\_15.0222.C1  
 Strand -  
 End 484  
 Method GENSCAN  
 End 422  
 Score .58

Seq. No. 29327  
 Gene No. 60548  
 Start 1  
 Name OJ000250\_15.0222.C1.o1.ts  
 Start 155  
 GI none  
 Exons 155..370, 263..367, 368..484

Seq. ID OJ000250\_15.0222.C1  
 Strand -  
 End 484  
 Method TBLASTX:Soybean  
 End 484  
 Score 62

Seq. No. 29327  
 Gene No. 60548  
 Start 1  
 Name OJ000250\_15.0222.C1.o1.tw

Seq. ID OJ000250\_15.0222.C1  
 Strand -  
 End 484  
 Method TBLASTX:Wheat

Start 161  
 GI none  
 Exons 161..442, 191..361, 398..442

End 442  
 Score 72

Seq. No. 29327  
 Gene No. 60548  
 Start 1  
 Name OJ000250\_15.0222.C1.o1.tm  
 Start 197  
 GI none  
 Exons 197..391, 398..484

Seq. ID OJ000250\_15.0222.C1  
 Strand -  
 End 484  
 Method TBLASTX:Maize  
 End 484  
 Score 74

Seq. No. 29328  
 Gene No. 60549  
 Start 1  
 Name OJ000250\_15.0222.C3.o1.gp  
 Start 1  
 GI none  
 Exons 1..139

Seq. ID OJ000250\_15.0222.C3  
 Strand +  
 End 139  
 Method AAT/GAP  
 End 139  
 Score 266

Seq. No. 29329  
 Gene No. 60550  
 Start 1  
 Name OJ000250\_15.0222.C4.o1.np  
 Start 1  
 GI 2462744  
 Exons 1..1128, 1918..2006  
 GI Descrip. (AC002292) Hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ000250\_15.0222.C4  
 Strand +  
 End 2006  
 Method AAT/NAP  
 End 2006  
 Score 595

Seq. No. 29329  
 Gene No. 60550  
 Start 1  
 Name OJ000250\_15.0222.C4.o1.tc  
 Start 4  
 GI none  
 Exons 4..129, 19..564, 196..516

Seq. ID OJ000250\_15.0222.C4  
 Strand +  
 End 2006  
 Method TBLASTX:Cress  
 End 564  
 Score 310

Seq. No. 29329  
 Gene No. 60550  
 Start 1  
 Name OJ000250\_15.0222.C4.o1.tm  
 Start 43  
 GI none  
 Exons 43..93, 43..90, 64..408, 83..409, 93..410

Seq. ID OJ000250\_15.0222.C4  
 Strand +  
 End 2006  
 Method TBLASTX:Maize  
 End 410  
 Score 78

Seq. No. 29329  
 Gene No. 60550  
 Start 1  
 Name OJ000250\_15.0222.C4.o1.gs  
 Start 46  
 GI none  
 Exons 46..1215

Seq. ID OJ000250\_15.0222.C4  
 Strand +  
 End 2006  
 Method GENSCAN  
 End 1215  
 Score .81

Seq. No. 29329  
 Gene No. 60550  
 Start 1  
 Name OJ000250\_15.0222.C4.o1.ts

Seq. ID OJ000250\_15.0222.C4  
 Strand +  
 End 2006  
 Method TBLASTX:Soybean



Start 295  
GI none  
Exons 295..681, 715..828

End 828  
Score 231

Seq. No. 29329  
Gene No. 60550  
Start 1  
Name OJ000250\_15.0222.C4.o2.tm  
Start 992  
GI none  
Exons 992..1165, 993..1178, 994..1203, 997..1176, 1005..1178, 1168..1209

Seq. ID OJ000250\_15.0222.C4  
Strand +  
End 2006  
Method TBLASTX:Maize  
End 1209  
Score 134

Seq. No. 29330  
Gene No. 60551  
Start 41  
Name OJ000250\_15.0222.C6.o1.gs  
Start 41  
GI none  
Exons 41..120, 605..707, 879..981, 1506..1814, 1944..2033, 2109..2240, 2358..2485, 2527..2596

Seq. ID OJ000250\_15.0222.C6  
Strand -  
End 2596  
Method GENSCAN  
End 2596  
Score .76

Seq. No. 29330  
Gene No. 60551  
Start 41  
Name OJ000250\_15.0222.C6.o1.tm  
Start 590  
GI none  
Exons 590..709, 591..710, 796..912, 798..905, 799..906

Seq. ID OJ000250\_15.0222.C6  
Strand -  
End 2596  
Method TBLASTX:Maize  
End 912  
Score 120

Seq. No. 29331  
Gene No. 60552  
Start 1  
Name OJ000250\_15.0222.C7.o1.np  
Start 1  
GI 6562295  
Exons 1..164, 251..316, 952..1062, 1190..1291, 2204..2375, 3194..3463  
GI Descrip. (AL133421) putative protein (fragment) [Arabidopsis thaliana]

Seq. ID OJ000250\_15.0222.C7  
Strand -  
End 3463  
Method AAT/NAP  
End 3463  
Score 432

Seq. No. 29331  
Gene No. 60552  
Start 1  
Name OJ000250\_15.0222.C7.o1.gs  
Start 66  
GI none  
Exons 66..164, 952..1062, 1190..1291, 2204..2400, 3265..3403

Seq. ID OJ000250\_15.0222.C7  
Strand -  
End 3463  
Method GENSCAN  
End 3403  
Score .76

Seq. No. 29332  
Gene No. 60553  
Start 82  
Name OJ000250\_15.0222.C8.o1.gs  
Start 82  
GI none  
Exons 82..127, 845..883, 2300..2432, 2855..3130

Seq. ID OJ000250\_15.0222.C8  
Strand -  
End 3149  
Method GENSCAN  
End 3130  
Score .56

Seq. No. 29332  
Gene No. 60553

Seq. ID OJ000250\_15.0222.C8  
Strand -

Start	82	End	3149
Name	OJ000250_15.0222.C8.o1.np	Method	AAT/NAP
Start	731	End	3149
GI	6562295	Score	520
Exons	731..805, 1178..1353, 2300..2432, 2855..3149		
GI Descrip.	(AL133421) putative protein (fragment) [Arabidopsis thaliana]		

Seq. No.	29332	Seq. ID	OJ000250_15.0222.C8
Gene No.	60553	Strand	-
Start	82	End	3149
Name	OJ000250_15.0222.C8.o1.tm	Method	TBLASTX:Maize
Start	1183	End	2438
GI	none	Score	130
Exons	1183..1350, 1184..1348, 1199..1354, 2291..2434, 2301..2438, 2304..2435		

Seq. No.	29333	Seq. ID	OJ000250_15.0222.C11
Gene No.	60554	Strand	-
Start	158	End	421
Name	OJ000250_15.0222.C11.o1.gp	Method	AAT/GAP
Start	158	End	421
GI	3061003	Score	445
Exons	158..421		

Seq. No.	29334	Seq. ID	OJ000250_15.0222.C13
Gene No.	60555	Strand	-
Start	1	End	542
Name	OJ000250_15.0222.C13.o1.gp	Method	AAT/GAP
Start	1	End	542
GI	431824	Score	238
Exons	1..55, 469..542		

Seq. No.	29334	Seq. ID	OJ000250_15.0222.C13
Gene No.	60556	Strand	-
Start	464	End	1114
Name	OJ000250_15.0222.C13.o1.tc	Method	TBLASTX:Cress
Start	464	End	1114
GI	none	Score	174
Exons	464..613, 481..615, 484..612, 528..617, 1052..1114, 1057..1113		

Seq. No.	29335	Seq. ID	OJ000250_15.0222.C17
Gene No.	60557	Strand	+
Start	55	End	216
Name	OJ000250_15.0222.C17.o1.gs	Method	GENSCAN
Start	55	End	216
GI	none	Score	.75
Exons	55..216		

Seq. No.	29336	Seq. ID	OJ000250_15.0222.C18
Gene No.	60558	Strand	+
Start	79	End	243
Name	OJ000250_15.0222.C18.o1.gs	Method	GENSCAN
Start	79	End	243
GI	none	Score	.66
Exons	79..243		

Seq. No.	29336	Seq. ID	OJ000250_15.0222.C18
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Gene No.	60559	Strand	
Start	811	End	1379
Name	OJ000250_15.0222.C18.o1.tw	Method	TBLASTX:Wheat
Start	811	End	1180
GI	none	Score	114
Exons	811..1044, 813..1049, 1049..1180		
Seq. No.	29336	Seq. ID	OJ000250_15.0222.C18
Gene No.	60559	Strand	
Start	811	End	1379
Name	OJ000250_15.0222.C18.o1.tm	Method	TBLASTX:Maize
Start	906	End	1379
GI	none	Score	48
Exons	906..974, 907..975, 1062..1379, 1067..1378		
Seq. No.	29337	Seq. ID	OJ000250_15.0222.C19
Gene No.	60560	Strand	-
Start	207	End	323
Name	OJ000250_15.0222.C19.o1.gs	Method	GENSCAN
Start	207	End	323
GI	none	Score	.83
Exons	207..323		
Seq. No.	29338	Seq. ID	OJ000250_15.0222.C20
Gene No.	60561	Strand	+
Start	1	End	1187
Name	OJ000250_15.0222.C20.o1.gs	Method	GENSCAN
Start	1	End	1187
GI	none	Score	.97
Exons	1..68, 77..1187		
Seq. No.	29338	Seq. ID	OJ000250_15.0222.C20
Gene No.	60561	Strand	+
Start	1	End	1187
Name	OJ000250_15.0222.C20.o1.np	Method	AAT/NAP
Start	1	End	318
GI	3127838	Score	162
Exons	1..318		
GI Descrip.	(AL023496) hypothetical protein [Streptomyces coelicolor]		
Seq. No.	29339	Seq. ID	OJ000250_15.0222.C22
Gene No.	60562	Strand	-
Start	38	End	955
Name	OJ000250_15.0222.C22.o2.tm	Method	TBLASTX:Maize
Start	24	End	199
GI	none	Score	159
Exons	24..197, 33..197, 35..199		
Seq. No.	29339	Seq. ID	OJ000250_15.0222.C22
Gene No.	60562	Strand	-
Start	38	End	955
Name	OJ000250_15.0222.C22.o1.ts	Method	TBLASTX:Soybean
Start	35	End	910
GI	none	Score	208
Exons	35..520, 36..404, 716..910, 717..839		
Seq. No.	29339	Seq. ID	OJ000250_15.0222.C22

Gene No.	60562	Strand	-
Start	38	End	955
Name	OJ000250_15.0222.C22.o1.gs	Method	GENSCAN
Start	38	End	955
GI	none	Score	.72
Exons	38..517, 716..955		
Seq. No.	29339	Seq. ID	OJ000250_15.0222.C22
Gene No.	60562	Strand	-
Start	38	End	955
Name	OJ000250_15.0222.C22.o1.tm	Method	TBLASTX:Maize
Start	200	End	934
GI	none	Score	258
Exons	200..520, 200..520, 706..846, 711..929, 716..934, 809..934		
Seq. No.	29340	Seq. ID	OJ000250_15.0222.C23
Gene No.	60563	Strand	+
Start	944	End	1200
Name	OJ000250_15.0222.C23.o1.gp	Method	AAT/GAP
Start	944	End	1200
GI	LIB3432-059-P1-K1-D8	Score	463
Exons	944..1200		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		
Seq. No.	29341	Seq. ID	OJ000250_15.0222.C24
Gene No.	60564	Strand	-
Start	41	End	440
Name	OJ000250_15.0222.C24.o1.np	Method	AAT/NAP
Start	41	End	440
GI	6730739	Score	72
Exons	41..175, 262..440		
GI Descrip.	(AC018849) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29341	Seq. ID	OJ000250_15.0222.C24
Gene No.	60564	Strand	-
Start	41	End	440
Name	OJ000250_15.0222.C24.o1.tm	Method	TBLASTX:Maize
Start	92	End	375
GI	none	Score	106
Exons	92..181, 93..176, 94..195, 256..375, 257..373, 286..375		
Seq. No.	29342	Seq. ID	OJ000250_15.0222.C25
Gene No.	60565	Strand	+
Start	186	End	731
Name	OJ000250_15.0222.C25.o1.tc	Method	TBLASTX:Cress
Start	3	End	696
GI	none	Score	69
Exons	3..107, 194..376, 195..392, 469..621, 615..683, 616..696		
Seq. No.	29342	Seq. ID	OJ000250_15.0222.C25
Gene No.	60565	Strand	+
Start	186	End	731
Name	OJ000250_15.0222.C25.o1.ts	Method	TBLASTX:Soybean
Start	185	End	615
GI	none	Score	141
Exons	185..376, 195..392, 375..404, 376..405, 469..615, 489..614		

Seq. No.	29342	Seq. ID	OJ000250_15.0222.C25
Gene No.	60565	Strand	+
Start	186	End	731
Name	OJ000250_15.0222.C25.o1.gs	Method	GENSCAN
Start	186	End	718
GI	none	Score	.79
Exons	186..371, 514..718		

Seq. No.	29342	Seq. ID	OJ000250_15.0222.C25
Gene No.	60565	Strand	+
Start	186	End	731
Name	OJ000250_15.0222.C25.o1.tm	Method	TBLASTX:Maize
Start	215	End	731
GI	none	Score	144
Exons	215..376, 216..392, 225..383, 376..405, 469..621, 489..620, 615..716, 616..702, 708..731		

Seq. No.	29342	Seq. ID	OJ000250_15.0222.C25
Gene No.	60565	Strand	+
Start	186	End	731
Name	OJ000250_15.0222.C25.o1.np	Method	AAT/NAP
Start	219	End	621
GI	6598346	Score	124
Exons	219..442, 473..621		
GI Descrip.	(AC002336) unknown protein [Arabidopsis thaliana]		

Seq. No.	29343	Seq. ID	OJ000250_15.0222.C26
Gene No.	60566	Strand	+
Start	15	End	413
Name	OJ000250_15.0222.C26.o1.gs	Method	GENSCAN
Start	15	End	413
GI	none	Score	.96
Exons	15..105, 370..413		

Seq. No.	29343	Seq. ID	OJ000250_15.0222.C26
Gene No.	60567	Strand	-
Start	181	End	1294
Name	OJ000250_15.0222.C26.o1.np	Method	AAT/NAP
Start	181	End	1294
GI	5777617	Score	91
Exons	181..278, 1268..1294		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	29343	Seq. ID	OJ000250_15.0222.C26
Gene No.	60567	Strand	-
Start	181	End	1294
Name	OJ000250_15.0222.C26.o2.gs	Method	GENSCAN
Start	1140	End	1271
GI	none	Score	.81
Exons	1140..1271		

Seq. No.	29344	Seq. ID	OJ000250_15.0222.C31
Gene No.	60568	Strand	-
Start	180	End	550
Name	OJ000250_15.0222.C31.o1.gs	Method	GENSCAN
Start	180	End	550

GI	none	Score	.97
Exons	180..550		
Seq. No.	29345	Seq. ID	OJ000250_15.0222.C32
Gene No.	60569	Strand	-
Start	110	End	301
Name	OJ000250_15.0222.C32.o1.gs	Method	GENSCAN
Start	110	End	301
GI	none	Score	.84
Exons	110..301		
Seq. No.	29346	Seq. ID	OJ000250_15.0222.C33
Gene No.	60570	Strand	+
Start	205	End	272
Name	OJ000250_15.0222.C33.o1.gs	Method	GENSCAN
Start	205	End	272
GI	none	Score	.43
Exons	205..272		
Seq. No.	29347	Seq. ID	OJ000250_15.0222.C35
Gene No.	60571	Strand	+
Start	438	End	541
Name	OJ000250_15.0222.C35.o1.gs	Method	GENSCAN
Start	438	End	541
GI	none	Score	.81
Exons	438..541		
Seq. No.	29348	Seq. ID	OJ000250_15.0222.C36
Gene No.	60572	Strand	+
Start	201	End	491
Name	OJ000250_15.0222.C36.o1.gs	Method	GENSCAN
Start	201	End	491
GI	none	Score	.4
Exons	201..207, 380..491		
Seq. No.	29349	Seq. ID	OJ000250_15.0222.C38
Gene No.	60573	Strand	+
Start	1	End	1240
Name	OJ000250_15.0222.C38.o1.np	Method	AAT/NAP
Start	1	End	664
GI	6907089	Score	260
Exons	1..664		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	29349	Seq. ID	OJ000250_15.0222.C38
Gene No.	60573	Strand	+
Start	1	End	1240
Name	OJ000250_15.0222.C38.o1.gs	Method	GENSCAN
Start	38	End	1092
GI	none	Score	.9
Exons	38..590, 757..881, 994..1092		
Seq. No.	29349	Seq. ID	OJ000250_15.0222.C38
Gene No.	60573	Strand	+
Start	1	End	1240
Name	OJ000250_15.0222.C38.o2.np	Method	AAT/NAP
Start	950	End	1240

GI 6721561 Score 66  
 Exons 950..1094, 1217..1240  
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 29350 Seq. ID OJ000250\_15.0222.C40  
 Gene No. 60574 Strand +  
 Start 949 End 3398  
 Name OJ000250\_15.0222.C40.o1.gs Method GENSCAN  
 Start 949 End 2975  
 GI none Score .49  
 Exons 949..1172, 2236..2387, 2419..2549, 2643..2975

Seq. No. 29350 Seq. ID OJ000250\_15.0222.C40  
 Gene No. 60574 Strand +  
 Start 949 End 3398  
 Name OJ000250\_15.0222.C40.o1.tc Method TBLASTX:Cress  
 Start 2240 End 2663  
 GI none Score 108  
 Exons 2240..2383, 2496..2663

Seq. No. 29350 Seq. ID OJ000250\_15.0222.C40  
 Gene No. 60574 Strand +  
 Start 949 End 3398  
 Name OJ000250\_15.0222.C40.o1.ts Method TBLASTX:Soybean  
 Start 2245 End 2939  
 GI none Score 131  
 Exons 2245..2385, 2255..2383, 2541..2678, 2591..2644, 2745..2882, 2753..2881, 2874..2939, 2876..2926

Seq. No. 29350 Seq. ID OJ000250\_15.0222.C40  
 Gene No. 60574 Strand +  
 Start 949 End 3398  
 Name OJ000250\_15.0222.C40.o1.np Method AAT/NAP  
 Start 2261 End 3398  
 GI 2911364 Score 388  
 Exons 2261..2387, 2494..2660, 2748..2935, 3314..3398  
 GI Descrip. (AF041046) NADPH HC toxin reductase [Zea mays]

Seq. No. 29350 Seq. ID OJ000250\_15.0222.C40  
 Gene No. 60574 Strand +  
 Start 949 End 3398  
 Name OJ000250\_15.0222.C40.o1.tm Method TBLASTX:Maize  
 Start 2282 End 2956  
 GI none Score 86  
 Exons 2282..2377, 2290..2367, 2290..2385, 2291..2386, 2496..2678, 2496..2657, 2748..2882, 2750..2881, 2862..2930, 2874..2954, 2876..2956

Seq. No. 29351 Seq. ID OJ000250\_15.0222.C41  
 Gene No. 60575 Strand +  
 Start 307 End 405  
 Name OJ000250\_15.0222.C41.o1.gs Method GENSCAN  
 Start 307 End 405

GI	none	Score	.66
Exons	307..405		
Seq. No.	29352	Seq. ID	OJ000250_15.0222.C44
Gene No.	60576	Strand	-
Start	1	End	1148
Name	OJ000250_15.0222.C44.o1.np	Method	AAT/NAP
Start	1	End	1148
GI	6721512	Score	83
Exons	1..66, 493..599, 1109..1148		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	29352	Seq. ID	OJ000250_15.0222.C44
Gene No.	60576	Strand	-
Start	1	End	1148
Name	OJ000250_15.0222.C44.o1.gs	Method	GENSCAN
Start	229	End	609
GI	none	Score	.5
Exons	229..328, 348..441, 563..609		
Seq. No.	29353	Seq. ID	OJ000250_15.0222.C45
Gene No.	60577	Strand	+
Start	1	End	300
Name	OJ000250_15.0222.C45.o1.np	Method	AAT/NAP
Start	1	End	300
GI	6562297	Score	250
Exons	1..300		
GI Descrip.	(AL133421) putative protein [Arabidopsis thaliana]		
Seq. No.	29353	Seq. ID	OJ000250_15.0222.C45
Gene No.	60577	Strand	+
Start	1	End	300
Name	OJ000250_15.0222.C45.o1.tm	Method	TBLASTX:Maize
Start	9	End	291
GI	none	Score	243
Exons	9..290, 10..291		
Seq. No.	29353	Seq. ID	OJ000250_15.0222.C45
Gene No.	60577	Strand	+
Start	1	End	300
Name	OJ000250_15.0222.C45.o1.ts	Method	TBLASTX:Soybean
Start	10	End	300
GI	none	Score	246
Exons	10..300, 12..299		
Seq. No.	29353	Seq. ID	OJ000250_15.0222.C45
Gene No.	60577	Strand	+
Start	1	End	300
Name	OJ000250_15.0222.C45.o1.tc	Method	TBLASTX:Cress
Start	49	End	297
GI	none	Score	41
Exons	49..108, 123..296, 124..297		
Seq. No.	29353	Seq. ID	OJ000250_15.0222.C45
Gene No.	60577	Strand	+
Start	1	End	300
Name	OJ000250_15.0222.C45.o1.gs	Method	GENSCAN



Start	85	End	294
GI	none	Score	.96
Exons	85..294		
Seq. No.	29354	Seq. ID	OJ000250_15.0222.C47
Gene No.	60578	Strand	+
Start	192	End	728
Name	OJ000250_15.0222.C47.o1.gs	Method	GENSCAN
Start	192	End	617
GI	none	Score	.72
Exons	192..302, 426..617		
Seq. No.	29354	Seq. ID	OJ000250_15.0222.C47
Gene No.	60578	Strand	+
Start	192	End	728
Name	OJ000250_15.0222.C47.o1.tm	Method	TBLASTX:Maize
Start	425	End	728
GI	none	Score	141
Exons	425..523, 426..524, 445..525, 546..647, 546..626, 631..663, 632..664, 639..695, 659..688, 711..728		
Seq. No.	29355	Seq. ID	OJ000250_15.0222.C48
Gene No.	60579	Strand	-
Start	1	End	1081
Name	OJ000250_15.0222.C48.o1.np	Method	AAT/NAP
Start	1	End	1081
GI	3319345	Score	192
Exons	1..24, 534..1081		
GI Descrip.	(AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		
Seq. No.	29355	Seq. ID	OJ000250_15.0222.C48
Gene No.	60579	Strand	-
Start	1	End	1081
Name	OJ000250_15.0222.C48.o1.gs	Method	GENSCAN
Start	214	End	814
GI	none	Score	.84
Exons	214..414, 492..814		
Seq. No.	29355	Seq. ID	OJ000250_15.0222.C48
Gene No.	60579	Strand	-
Start	1	End	1081
Name	OJ000250_15.0222.C48.o1.ts	Method	TBLASTX:Soybean
Start	588	End	923
GI	none	Score	53
Exons	588..923, 595..759, 741..776, 811..855		
Seq. No.	29355	Seq. ID	OJ000250_15.0222.C48
Gene No.	60579	Strand	-
Start	1	End	1081
Name	OJ000250_15.0222.C48.o1.tc	Method	TBLASTX:Cress
Start	597	End	938
GI	none	Score	58
Exons	597..677, 693..938, 712..843		
Seq. No.	29356	Seq. ID	OJ000250_15.0222.C50
Gene No.	60580	Strand	+

Start	1	End	1231
Name	OJ000250_15.0222.C50.o1.np	Method	AAT/NAP
Start	1	End	578
GI	6016874	Score	318
Exons	1..578		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	29356	Seq. ID	OJ000250_15.0222.C50
Gene No.	60580	Strand	+
Start	1	End	1231
Name	OJ000250_15.0222.C50.o1.gs	Method	GENSCAN
Start	356	End	1231
GI	none	Score	.51
Exons	356..542, 1100..1231		

Seq. No.	29357	Seq. ID	OJ000250_15.0222.C52
Gene No.	60581	Strand	-
Start	461	End	600
Name	OJ000250_15.0222.C52.o1.gp	Method	AAT/GAP
Start	461	End	600
GI	none	Score	276
Exons	461..600		

Seq. No.	29358	Seq. ID	OJ000250_15.0222.C53
Gene No.	60582	Strand	+
Start	194	End	499
Name	OJ000250_15.0222.C53.o1.gs	Method	GENSCAN
Start	194	End	499
GI	none	Score	.49
Exons	194..499		

Seq. No.	29358	Seq. ID	OJ000250_15.0222.C53
Gene No.	60583	Strand	-
Start	888	End	1286
Name	OJ000250_15.0222.C53.o2.gs	Method	GENSCAN
Start	888	End	1286
GI	none	Score	.61
Exons	888..1286		

Seq. No.	29359	Seq. ID	OJ000250_15.0222.C54
Gene No.	60584	Strand	+
Start	5366	End	6189
Name	OJ000250_15.0222.C54.o2.gs	Method	GENSCAN
Start	5366	End	6189
GI	none	Score	.63
Exons	5366..5621, 6101..6189		

Seq. No.	29359	Seq. ID	OJ000250_15.0222.C54
Gene No.	60585	Strand	-
Start	2295	End	4204
Name	OJ000250_15.0222.C54.o1.gs	Method	GENSCAN
Start	2295	End	4204
GI	none	Score	.77
Exons	2295..2507, 2732..2782, 3905..4204		

Seq. No.	29359	Seq. ID	OJ000250_15.0222.C54
Gene No.	60586	Strand	-
Start	7204	End	7564
Name	OJ000250_15.0222.C54.o1.tm	Method	TBLASTX:Maize
Start	7074	End	7564
GI	none	Score	47
Exons	7074..7139, 7074..7136, 7190..7240, 7203..7241, 7230..7514, 7237..7563, 7253..7561, 7253..7564		

Seq. No.	29359	Seq. ID	OJ000250_15.0222.C54
Gene No.	60586	Strand	-
Start	7204	End	7564
Name	OJ000250_15.0222.C54.o3.gs	Method	GENSCAN
Start	7204	End	7556
GI	none	Score	.99
Exons	7204..7556		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60587	Strand	+
Start	1	End	6923
Name	OJ000250_15.0222.C56.o1.np	Method	AAT/NAP
Start	1	End	6923
GI	4680203	Score	1957
Exons	1..23, 502..2170, 2330..2559, 5987..6923		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60587	Strand	+
Start	1	End	6923
Name	OJ000250_15.0222.C56.o1.gs	Method	GENSCAN
Start	826	End	3951
GI	none	Score	.46
Exons	826..1509, 2038..2166, 2287..2823, 3595..3642, 3739..3951		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60587	Strand	+
Start	1	End	6923
Name	OJ000250_15.0222.C56.o3.gs	Method	GENSCAN
Start	5948	End	6898
GI	none	Score	.65
Exons	5948..6898		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60588	Strand	+
Start	21602	End	26292
Name	OJ000250_15.0222.C56.o2.gp	Method	AAT/GAP
Start	21602	End	23120
GI	2310235	Score	304
Exons	21602..21639, 22049..22188, 23065..23120		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60588	Strand	+
Start	21602	End	26292
Name	OJ000250_15.0222.C56.o2.np	Method	AAT/NAP
Start	22049	End	25339

GI 4680203 Score 3311  
 Exons 22049..23722, 23856..24086, 24362..25339  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o7.gs Method GENSCAN  
 Start 22049 End 25360  
 GI none Score .77  
 Exons 22049..23245, 23384..23764, 23787..23945, 24317..24448,  
 24770..25360

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o3.gp Method AAT/GAP  
 Start 22053 End 26142  
 GI 342\_1.R1084 Score 6632  
 Exons 22053..25444, 25563..25667, 25777..26142  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o6.gp Method AAT/GAP  
 Start 22053 End 26120  
 GI 342\_1.R1084 Score 6592  
 Exons 22053..25444, 25563..25667, 25777..26120  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o7.gp Method AAT/GAP  
 Start 22053 End 26114  
 GI 342\_1.R1084 Score 6580  
 Exons 22053..25444, 25563..25667, 25777..26114  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o5.gp Method AAT/GAP  
 Start 22053 End 26122  
 GI 342\_1.R1084 Score 6596  
 Exons 22053..25444, 25563..25667, 25777..26122  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 29360 Seq. ID OJ000250\_15.0222.C56  
 Gene No. 60588 Strand +  
 Start 21602 End 26292  
 Name OJ000250\_15.0222.C56.o4.gp Method AAT/GAP

Start	22053	End	26144
GI	342_1.R1084	Score	6636
Exons	22053..25444, 25563..25667, 25777..26144		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60588	Strand	+
Start	21602	End	26292
Name	OJ000250_15.0222.C56.o8.gp	Method	AAT/GAP
Start	22195	End	26292
GI	342_1.R1084	Score	6699
Exons	22195..25444, 25563..25667, 25777..26292		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60588	Strand	+
Start	21602	End	26292
Name	OJ000250_15.0222.C56.o9.gp	Method	AAT/GAP
Start	22199	End	26292
GI	342_1.R1084	Score	6694
Exons	22199..25444, 25563..25667, 25777..26292		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60589	Strand	-
Start	3491	End	3872
Name	OJ000250_15.0222.C56.o1.gp	Method	AAT/GAP
Start	3491	End	3872
GI	uC-osflcyp033a04b1	Score	651
Exons	3491..3872		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60590	Strand	-
Start	4745	End	5559
Name	OJ000250_15.0222.C56.o2.gs	Method	GENSCAN
Start	4745	End	5559
GI	none	Score	.99
Exons	4745..5493, 5553..5559		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60591	Strand	-
Start	10110	End	13954
Name	OJ000250_15.0222.C56.o4.gs	Method	GENSCAN
Start	10110	End	13954
GI	none	Score	.71
Exons	10110..10331, 10487..10539, 10625..10689, 12713..12910, 13174..13305, 13383..13421, 13548..13954		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o1.ts	Method	TBLASTX:Soybean

Start	940	End	22813
GI	none	Score	47
Exons	940..987, 945..989, 989..1150, 993..1277, 994..1275, 22523..22741, 22531..22737, 22748..22813		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o4.tw	Method	TBLASTX:Wheat
Start	973	End	22743
GI	none	Score	234
Exons	973..1236, 999..1232, 22400..22507, 22419..22649, 22490..22741, 22491..22694, 22498..22740, 22501..22743		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o2.tc	Method	TBLASTX:Cress
Start	1294	End	23182
GI	none	Score	306
Exons	1294..1644, 1302..1367, 1488..1643, 22834..22986, 22841..23182, 23026..23163		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o2.ts	Method	TBLASTX:Soybean
Start	1294	End	23101
GI	none	Score	207
Exons	1294..1563, 1308..1562, 22832..23101, 22859..23083		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o2.tw	Method	TBLASTX:Wheat
Start	1476	End	23439
GI	none	Score	117
Exons	1476..1583, 1486..1590, 1597..1692, 1599..1694, 1600..1707, 1704..1898, 1738..1893, 22970..23023, 22978..23022, 23024..23128, 23035..23124, 23132..23230, 23137..23229, 23210..23434, 23230..23439, 23231..23434, 23233..23439		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o1.tm	Method	TBLASTX:Maize
Start	1489	End	23473
GI	none	Score	222
Exons	1489..1731, 1491..1730, 1713..1931, 1738..1932, 23015..23263, 23027..23260, 23035..23268, 23279..23473		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o4.ts	Method	TBLASTX:Soybean
Start	1768	End	23545
GI	none	Score	208

Exons 1768..2001, 1791..1922, 23303..23545

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o3.tw	Method	TBLASTX:Wheat
Start	2014	End	23954
GI	none	Score	42
Exons	2014..2079, 2113..2232, 2116..2202, 23534..23650, 23536..23679, 23657..23803, 23659..23805, 23787..23954, 23787..23945, 23879..23953		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o3.tm	Method	TBLASTX:Maize
Start	2077	End	23779
GI	none	Score	226
Exons	2077..2301, 2187..2303, 23669..23779, 23671..23778		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o2.tm	Method	TBLASTX:Maize
Start	2419	End	24325
GI	none	Score	44
Exons	2419..2469, 2484..2780, 2485..2787, 24012..24149, 24023..24157, 24158..24325, 24214..24297		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o1.tw	Method	TBLASTX:Wheat
Start	2455	End	25285
GI	none	Score	288
Exons	2455..2787, 2487..2792, 5933..6139, 6034..6126, 6134..6316, 6175..6219, 6340..6480, 6347..6511, 6491..6547, 6504..6545, 6548..6601, 6553..6585, 6619..6711, 6620..6724, 6725..6844, 23969..24154, 23970..24152, 24159..24434, 24167..24886, 24175..24699, 24554..24871, 24881..24925, 24885..24920, 24928..25023, 24932..24991, 24970..25110, 24971..25111, 25124..25204, 25193..25285		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o1.tc	Method	TBLASTX:Cress
Start	5933	End	24703
GI	none	Score	207
Exons	5933..6139, 6034..6126, 6134..6307, 6175..6303, 24252..24434, 24256..24693, 24256..24699, 24260..24703, 24266..24703		

Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o3.ts	Method	TBLASTX:Soybean
Start	6533	End	25183

GI	none	Score	227
Exons	6533..6781, 6535..6762, 24908..24961, 24976..25089, 24977..25090, 25121..25183		
Seq. No.	29360	Seq. ID	OJ000250_15.0222.C56
Gene No.	60592	Strand	-
Start	17857	End	25285
Name	OJ000250_15.0222.C56.o6.gs	Method	GENSCAN
Start	17857	End	19146
GI	none	Score	.74
Exons	17857..18054, 18189..18380, 19126..19146		
Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60593	Strand	+
Start	1	End	5354
Name	OJ000250_15.0222.C57.o2.np	Method	AAT/NAP
Start	1	End	2175
GI	3845248	Score	49
Exons	1..31, 616..774, 2108..2175		
GI Descrip.	(AE001410) hypothetical protein [Plasmodium falciparum]		
Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60593	Strand	+
Start	1	End	5354
Name	OJ000250_15.0222.C57.o1.gs	Method	GENSCAN
Start	311	End	5354
GI	none	Score	.41
Exons	311..768, 1639..2913, 2919..3078, 3153..3294, 3478..4249, 4359..4532, 4629..4739, 4991..5120, 5169..5354		
Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60593	Strand	+
Start	1	End	5354
Name	OJ000250_15.0222.C57.o1.np	Method	AAT/NAP
Start	1643	End	3204
GI	4680204	Score	751
Exons	1643..3078, 3153..3204		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60593	Strand	+
Start	1	End	5354
Name	OJ000250_15.0222.C57.o3.np	Method	AAT/NAP
Start	1643	End	5336
GI	4680204	Score	1057
Exons	1643..3078, 3153..4249, 4359..4532, 4629..4848, 5199..5336		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60594	Strand	-
Start	5633	End	5773
Name	OJ000250_15.0222.C57.o1.tw	Method	TBLASTX:Wheat
Start	2286	End	2689
GI	none	Score	60
Exons	2286..2426, 2286..2402, 2288..2524, 2288..2437, 2389..2556, 2519..2689		



Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60594	Strand	-
Start	5633	End	5773
Name	OJ000250_15.0222.C57.o2.tw	Method	TBLASTX:Wheat
Start	4176	End	4698
GI	none	Score	60
Exons	4176..4256, 4345..4527, 4395..4520, 4627..4698		

Seq. No.	29361	Seq. ID	OJ000250_15.0222.C57
Gene No.	60594	Strand	-
Start	5633	End	5773
Name	OJ000250_15.0222.C57.o2.gp	Method	AAT/GAP
Start	5633	End	5773
GI	21474_1.R1084	Score	229
Exons	5633..5773		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	29362	Seq. ID	OJ000250_15.0222.C58
Gene No.	60595	Strand	-
Start	2905	End	3180
Name	OJ000250_15.0222.C58.o1.gp	Method	AAT/GAP
Start	2905	End	3180
GI	LIB3434-035-P1-K1-A7	Score	340
Exons	2905..3180		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	29362	Seq. ID	OJ000250_15.0222.C58
Gene No.	60596	Strand	-
Start	4327	End	4686
Name	OJ000250_15.0222.C58.o2.gs	Method	GENSCAN
Start	4327	End	4686
GI	none	Score	.84
Exons	4327..4364, 4527..4686		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o1.np	Method	AAT/NAP
Start	83	End	2212
GI	4836883	Score	398
Exons	83..291, 450..913, 1132..1400, 1520..1619, 1714..1830, 2080..2212		
GI Descrip.	(AC007260) lcl prt_seq No definition line found [Arabidopsis thaliana]		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o2.tc	Method	TBLASTX:Cress
Start	104	End	1400
GI	none	Score	186
Exons	104..298, 157..240, 435..593, 445..777, 1224..1400		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+

Start	83	End	2329
Name	OJ000250_15.0222.C59.o1.gs	Method	GENSCAN
Start	200	End	1982
GI	none	Score	.81
Exons	200..218, 569..774, 872..1024, 1149..1400, 1520..1609, 1707..1785, 1876..1982		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o1.gp	Method	AAT/GAP
Start	738	End	2329
GI	32731_1.R1084	Score	1541
Exons	738..774, 872..1024, 1149..1400, 1520..1609, 1707..1785, 1876..1982, 2085..2212, 2301..2329		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o2.np	Method	AAT/NAP
Start	1221	End	2309
GI	6635860	Score	309
Exons	1221..1400, 1520..1587, 1687..1785, 1876..1982, 2085..2309		
GI Descrip.	(AF216313) cytochrome P450 [Helianthus annuus]		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o1.tc	Method	TBLASTX:Cress
Start	1513	End	2216
GI	none	Score	69
Exons	1513..1587, 1517..1615, 1695..1787, 1706..1786, 1875..1979, 1875..1979, 2100..2216		

Seq. No.	29363	Seq. ID	OJ000250_15.0222.C59
Gene No.	60597	Strand	+
Start	83	End	2329
Name	OJ000250_15.0222.C59.o1.tm	Method	TBLASTX:Maize
Start	1513	End	2000
GI	none	Score	59
Exons	1513..1611, 1513..1614, 1517..1615, 1680..1787, 1875..2000, 1875..1979		

Seq. No.	29364	Seq. ID	OJ000250_15.0222.C60
Gene No.	60598	Strand	+
Start	1	End	2564
Name	OJ000250_15.0222.C60.o1.gp	Method	AAT/GAP
Start	1	End	918
GI	32731_1.R1084	Score	978
Exons	1..61, 164..291, 572..918		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	29364	Seq. ID	OJ000250_15.0222.C60
Gene No.	60598	Strand	+

Start	1	End	2564
Name	OJ000250_15.0222.C60.o1.np	Method	AAT/NAP
Start	1	End	662
GI	6635860	Score	138
Exons	1..61, 164..291, 572..662		
GI Descrip.	(AF216313) cytochrome P450 [Helianthus annuus]		

Seq. No.	29364	Seq. ID	OJ000250_15.0222.C60
Gene No.	60598	Strand	+
Start	1	End	2564
Name	OJ000250_15.0222.C60.o1.gs	Method	GENSCAN
Start	55	End	2564
GI	none	Score	.49
Exons	55..61, 1949..2235, 2253..2564		

Seq. No.	29364	Seq. ID	OJ000250_15.0222.C60
Gene No.	60599	Strand	-
Start	5842	End	7072
Name	OJ000250_15.0222.C60.o2.gs	Method	GENSCAN
Start	5842	End	7072
GI	none	Score	.63
Exons	5842..6008, 6023..6130, 7066..7072		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.gs	Method	GENSCAN
Start	61	End	6788
GI	none	Score	.53
Exons	61..261, 3165..3511, 3677..3831, 4311..5443, 5469..6788		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o2.gp	Method	AAT/GAP
Start	1291	End	1673
GI	uC-osflcyp033a04b1	Score	656
Exons	1291..1673		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.np	Method	AAT/NAP
Start	3165	End	6832
GI	2443320	Score	4899
Exons	3165..6832		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o5.tw	Method	TBLASTX:Wheat
Start	3363	End	3709
GI	none	Score	220
Exons	3363..3707, 3542..3709		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o4.tw	Method	TBLASTX:Wheat
Start	4237	End	4636
GI	none	Score	176
Exons	4237..4413, 4238..4414, 4427..4636, 4427..4621		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o2.tw	Method	TBLASTX:Wheat
Start	4637	End	5302
GI	none	Score	746
Exons	4637..5302, 4640..5236, 4653..5252, 4759..5256		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o3.tm	Method	TBLASTX:Maize
Start	4775	End	5320
GI	none	Score	198
Exons	4775..5077, 4900..4995, 5102..5179, 5165..5320		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o3.ts	Method	TBLASTX:Soybean
Start	4871	End	5302
GI	none	Score	165
Exons	4871..5098, 4873..5097, 4904..5104, 5099..5179, 5165..5302		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.tc	Method	TBLASTX:Cress
Start	4883	End	5410
GI	none	Score	102
Exons	4883..5089, 5099..5176, 5195..5410		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.ts	Method	TBLASTX:Soybean
Start	5499	End	5833
GI	5509260	Score	273
Exons	5499..5825, 5501..5641, 5675..5833		
GI Descrip.	-		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o2.tc	Method	TBLASTX:Cress
Start	5499	End	5738
GI	none	Score	189
Exons	5499..5738, 5504..5650		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.tw	Method	TBLASTX:Wheat
Start	5513	End	6314
GI	none	Score	469
Exons	5513..5860, 5514..5864, 5517..5864, 5524..5925, 5834..6313, 5850..6314		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o1.tm	Method	TBLASTX:Maize
Start	5519	End	5951
GI	none	Score	314
Exons	5519..5884, 5538..5951		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o2.tm	Method	TBLASTX:Maize
Start	5964	End	6428
GI	none	Score	66
Exons	5964..6125, 6102..6407, 6228..6428		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o2.ts	Method	TBLASTX:Soybean
Start	6285	End	6770
GI	none	Score	204
Exons	6285..6587, 6479..6586, 6663..6770		

Seq. No.	29365	Seq. ID	OJ000250_15.0222.C61
Gene No.	60600	Strand	+
Start	61	End	6832
Name	OJ000250_15.0222.C61.o3.tw	Method	TBLASTX:Wheat
Start	6387	End	6832
GI	none	Score	266
Exons	6387..6605, 6388..6507, 6392..6604, 6578..6766, 6591..6770, 6767..6832, 6779..6832		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60601	Strand	-
Start	303	End	964
Name	OJ000250_15.0222.C62.o1.gs	Method	GENSCAN
Start	303	End	917
GI	none	Score	.49
Exons	303..917		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60601	Strand	-
Start	303	End	964
Name	OJ000250_15.0222.C62.o1.np	Method	AAT/NAP
Start	437	End	964
GI	5257279	Score	802

Exons 437..964  
 GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o2.gs	Method	GENSCAN
Start	3563	End	5685
GI	none	Score	.54
Exons	3563..3570, 3613..3774, 4266..4629, 5059..5181, 5299..5685		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o2.np	Method	AAT/NAP
Start	4138	End	6407
GI	4680179	Score	2596
Exons	4138..6407		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o5.tw	Method	TBLASTX:Wheat
Start	4252	End	4516
GI	none	Score	99
Exons	4252..4515, 4292..4516		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o1.tm	Method	TBLASTX:Maize
Start	4370	End	4959
GI	none	Score	250
Exons	4370..4693, 4375..4803, 4376..4804, 4660..4863, 4674..4808, 4797..4931, 4801..4959, 4805..4957		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o1.tw	Method	TBLASTX:Wheat
Start	4516	End	5142
GI	none	Score	310
Exons	4516..5142, 4517..5140		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o3.tm	Method	TBLASTX:Maize
Start	4960	End	5184
GI	none	Score	194
Exons	4960..5184, 4964..5182		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407

Name	OJ000250_15.0222.C62.o3.ts	Method	TBLASTX:Soybean
Start	5104	End	5290
GI	none	Score	72
Exons	5104..5190, 5105..5191, 5198..5290, 5202..5282		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o3.tw	Method	TBLASTX:Wheat
Start	5149	End	5638
GI	none	Score	193
Exons	5149..5196, 5153..5638, 5174..5287, 5193..5294, 5233..5637		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o5.tm	Method	TBLASTX:Maize
Start	5189	End	5499
GI	none	Score	65
Exons	5189..5290, 5193..5288, 5293..5499, 5335..5430		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o2.tw	Method	TBLASTX:Wheat
Start	5638	End	6141
GI	none	Score	242
Exons	5638..6141, 5720..6106, 5797..6132		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o2.tm	Method	TBLASTX:Maize
Start	5716	End	6069
GI	none	Score	91
Exons	5716..6069, 5720..5908, 5800..6018, 5969..6067		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o2.ts	Method	TBLASTX:Soybean
Start	5890	End	6135
GI	none	Score	199
Exons	5890..6135		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o4.tm	Method	TBLASTX:Maize
Start	6076	End	6331
GI	none	Score	166
Exons	6076..6330, 6077..6331		
Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o4.tw	Method	TBLASTX:Wheat

Start	6142	End	6405
GI	none	Score	168
Exons	6142..6372, 6158..6376, 6363..6404, 6370..6405		

Seq. No.	29366	Seq. ID	OJ000250_15.0222.C62
Gene No.	60602	Strand	-
Start	3563	End	6407
Name	OJ000250_15.0222.C62.o1.ts	Method	TBLASTX:Soybean
Start	6157	End	6407
GI	none	Score	156
Exons	6157..6372, 6158..6361, 6354..6407, 6355..6399		

Seq. No.	29367	Seq. ID	OJ000250_15.0222.C63
Gene No.	60603	Strand	-
Start	1	End	456
Name	OJ000250_15.0222.C63.o1.np	Method	AAT/NAP
Start	1	End	456
GI	5257279	Score	732
Exons	1..456		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	29367	Seq. ID	OJ000250_15.0222.C63
Gene No.	60604	Strand	-
Start	713	End	1135
Name	OJ000250_15.0222.C63.o1.tm	Method	TBLASTX:Maize
Start	5	End	235
GI	none	Score	193
Exons	5..235, 6..233		

Seq. No.	29367	Seq. ID	OJ000250_15.0222.C63
Gene No.	60604	Strand	-
Start	713	End	1135
Name	OJ000250_15.0222.C63.o1.tw	Method	TBLASTX:Wheat
Start	5	End	244
GI	none	Score	150
Exons	5..244, 6..233		

Seq. No.	29367	Seq. ID	OJ000250_15.0222.C63
Gene No.	60604	Strand	-
Start	713	End	1135
Name	OJ000250_15.0222.C63.o2.np	Method	AAT/NAP
Start	713	End	1135
GI	6721559	Score	289
Exons	713..856, 885..1135		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29368	Seq. ID	OJ000250_15.0222.C66
Gene No.	60605	Strand	+
Start	33	End	705
Name	OJ000250_15.0222.C66.o1.gp	Method	AAT/GAP
Start	33	End	340
GI	3061235	Score	554
Exons	33..340		



Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o1.ts  
Start 33  
GI none  
Exons 33..503, 35..454, 313..507

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method TBLASTX:Soybean  
End 507  
Score 723

Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o1.tc  
Start 33  
GI none  
Exons 33..386, 33..380, 35..385

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method TBLASTX:Cress  
End 386  
Score 502

Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o1.tm  
Start 33  
GI none  
Exons 33..704, 33..704, 214..705

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method TBLASTX:Maize  
End 705  
Score 1129

Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o1.gs  
Start 42  
GI none  
Exons 42..585

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method GENSCAN  
End 585  
Score .5

Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o2.gp  
Start 376  
GI LIB3434-037-P1-K1-A7  
Exons 376..705

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method AAT/GAP  
End 705  
Score 608

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 29368  
Gene No. 60605  
Start 33  
Name OJ000250\_15.0222.C66.o2.tc  
Start 389  
GI none  
Exons 389..454, 390..560, 400..507

Seq. ID OJ000250\_15.0222.C66  
Strand +  
End 705  
Method TBLASTX:Cress  
End 560  
Score 222

Seq. No. 29369  
Gene No. 60606  
Start 467  
Name OJ000250\_15.0222.C68.o2.gp  
Start 467  
GI uC-osf1M202048c12b1  
Exons 467..981

Seq. ID OJ000250\_15.0222.C68  
Strand +  
End 981  
Method AAT/GAP  
End 981  
Score 707

GI Descrip. '5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60607	Strand	+
Start	6983	End	10742
Name	OJ000250_15.0222.C68.o4.np	Method	AAT/NAP
Start	6983	End	10742
GI	6063554	Score	340
Exons	6983..7019, 7858..7919, 9002..9281, 9399..9656, 10582..10742		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60607	Strand	+
Start	6983	End	10742
Name	OJ000250_15.0222.C68.o4.gp	Method	AAT/GAP
Start	9037	End	9347
GI	2312818	Score	546
Exons	9037..9347		
GI Descrip.	5852170/emb AL117265.1 OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60607	Strand	+
Start	6983	End	10742
Name	OJ000250_15.0222.C68.o5.gp	Method	AAT/GAP
Start	10139	End	10514
GI	2427387	Score	625
Exons	10139..10514		
GI Descrip.	5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60608	Strand	+
Start	16401	End	23179
Name	OJ000250_15.0222.C68.o6.np	Method	AAT/NAP
Start	16401	End	21037
GI	4680203	Score	3072
Exons	16401..16471, 17725..19401, 19555..19785, 20062..21037		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60608	Strand	+
Start	16401	End	23179
Name	OJ000250_15.0222.C68.o4.gs	Method	GENSCAN
Start	17725	End	23179
GI	none	Score	.43
Exons	17725..17846, 17848..17942, 18183..18535, 18846..19113, 19250..19615, 19967..20148, 20468..21018, 22258..22450, 22476..22817, 22863..22963, 23116..23179		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60608	Strand	+
Start	16401	End	23179
Name	OJ000250_15.0222.C68.o7.gp	Method	AAT/GAP

Start	17729	End	21243
GI	342_1.R1084	Score	5341
Exons	17729..21243		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60608	Strand	+
Start	16401	End	23179
Name	OJ000250_15.0222.C68.o8.gp	Method	AAT/GAP
Start	17729	End	21248
GI	342_1.R1084	Score	5340
Exons	17729..21248		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60609	Strand	-
Start	377	End	8125
Name	OJ000250_15.0222.C68.o1.np	Method	AAT/NAP
Start	377	End	4540
GI	6063554	Score	458
Exons	377..552, 1190..1217, 1687..1908, 2027..2318, 4440..4540		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60609	Strand	-
Start	377	End	8125
Name	OJ000250_15.0222.C68.o3.gp	Method	AAT/GAP
Start	1137	End	1577
GI	61605_1.R1084	Score	118
Exons	1137..1217, 1546..1577		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60609	Strand	-
Start	377	End	8125
Name	OJ000250_15.0222.C68.o3.np	Method	AAT/NAP
Start	2001	End	8125
GI	5257279	Score	2727
Exons	2001..2074, 5232..6366, 6995..7231, 7580..8125		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60609	Strand	-
Start	377	End	8125
Name	OJ000250_15.0222.C68.o2.np	Method	AAT/NAP
Start	4259	End	5026
GI	4680183	Score	181
Exons	4259..4348, 4956..5026		
GI Descrip.	(AF111709) gag-poi protein [Oryza sativa subsp. indica]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
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Gene No.	60609	Strand	-
Start	377	End	8125
Name	OJ000250_15.0222.C68.o2.gs	Method	GENSCAN
Start	4893	End	8125
GI	none	Score	.52
Exons	4893..5026, 5163..5247, 5329..6258, 6337..6514, 6996..7231, 7481..8125		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60610	Strand	-
Start	11110	End	11411
Name	OJ000250_15.0222.C68.o6.gp	Method	AAT/GAP
Start	11110	End	11411
GI	61605_3.R1084	Score	439
Exons	11110..11411		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60611	Strand	-
Start	13079	End	21548
Name	OJ000250_15.0222.C68.o5.np	Method	AAT/NAP
Start	13079	End	21548
GI	5257279	Score	83
Exons	13079..13319, 21478..21548		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o5.tw	Method	TBLASTX:Wheat
Start	6088	End	6474
GI	none	Score	155
Exons	6088..6234, 6259..6474		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o4.tw	Method	TBLASTX:Wheat
Start	18080	End	18425
GI	none	Score	77
Exons	18080..18181, 18164..18415, 18172..18414, 18174..18425		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o1.ts	Method	TBLASTX:Soybean
Start	18347	End	18772
GI	none	Score	93
Exons	18347..18421, 18422..18484, 18479..18772, 18533..18757		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o2.tc	Method	TBLASTX:Cress
Start	18514	End	18863

GI	none	Score	193
Exons	18514..18660, 18515..18772, 18709..18759, 18777..18863, 18785..18859		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o2.tw	Method	TBLASTX:Wheat
Start	18644	End	19120
GI	none	Score	54
Exons	18644..18700, 18652..18696, 18697..18813, 18698..18775, 18727..18816, 18813..18911, 18818..18910, 18821..18913, 18912..19115, 18914..19120		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o1.tm	Method	TBLASTX:Maize
Start	18692	End	19154
GI	none	Score	58
Exons	18692..18769, 18701..18772, 18777..18950, 18785..18949, 18960..19154		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o2.ts	Method	TBLASTX:Soybean
Start	18984	End	19226
GI	none	Score	213
Exons	18984..19226		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o3.tw	Method	TBLASTX:Wheat
Start	19260	End	19667
GI	none	Score	83
Exons	19260..19307, 19261..19320, 19306..19548, 19321..19548, 19581..19667, 19582..19662		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o1.tw	Method	TBLASTX:Wheat
Start	19668	End	20968
GI	none	Score	513
Exons	19668..20012, 19669..20088, 19706..20104, 19876..20157, 20082..20369, 20134..20370, 20254..20388, 20369..20584, 20375..20551, 20439..20552, 20559..20624, 20579..20623, 20626..20688, 20630..20689, 20668..20799, 20669..20797, 20699..20815, 20822..20902, 20822..20875, 20885..20968, 20895..20966		

Seq. No.	29369	Seq. ID	OJ000250_15.0222.C68
Gene No.	60612	Strand	-
Start	23337	End	23850
Name	OJ000250_15.0222.C68.o2.tm	Method	TBLASTX:Maize

Start 19711  
 GI none  
 Exons 19711..20028, 19722..19997

End 20028  
 Score 295

Seq. No. 29369  
 Gene No. 60612  
 Start 23337  
 Name OJ000250\_15.0222.C68.o1.tc  
 Start 19956  
 GI none  
 Exons 19956..20012, 19960..20088, 19960..20157, 19967..20212, 20082..20369, 20134..20370, 20254..20388

Seq. ID OJ000250\_15.0222.C68  
 Strand -  
 End 23850  
 Method TBLASTX:Cress  
 End 20388  
 Score 155

Seq. No. 29369  
 Gene No. 60612  
 Start 23337  
 Name OJ000250\_15.0222.C68.o9.gp  
 Start 23337  
 GI uC-osf1M202048c12b1  
 Exons 23337..23850  
 GI Descrip. '5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. ID OJ000250\_15.0222.C68  
 Strand -  
 End 23850  
 Method AAT/GAP  
 End 23850  
 Score 722

Seq. No. 29370  
 Gene No. 60613  
 Start 1  
 Name OJ000250\_15.0222.C70.o1.np  
 Start 1  
 GI 5257279  
 Exons 1..505, 650..676  
 GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. ID OJ000250\_15.0222.C70  
 Strand +  
 End 676  
 Method AAT/NAP  
 End 676  
 Score 794

Seq. No. 29370  
 Gene No. 60613  
 Start 1  
 Name OJ000250\_15.0222.C70.o1.gs  
 Start 8  
 GI none  
 Exons 8..613

Seq. ID OJ000250\_15.0222.C70  
 Strand +  
 End 676  
 Method GENSCAN  
 End 613  
 Score .93

Seq. No. 29371  
 Gene No. 60614  
 Start 1  
 Name OJ000250\_15.0222.C71.o1.np  
 Start 1  
 GI 5257279  
 Exons 1..587  
 GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. ID OJ000250\_15.0222.C71  
 Strand -  
 End 587  
 Method AAT/NAP  
 End 587  
 Score 827

Seq. No. 29371  
 Gene No. 60614  
 Start 1  
 Name OJ000250\_15.0222.C71.o1.gs  
 Start 73  
 GI none

Seq. ID OJ000250\_15.0222.C71  
 Strand -  
 End 587  
 Method GENSCAN  
 End 587  
 Score .7

Exons 73..587

Seq. No.	29372	Seq. ID	OJ000250_15.0222.C72
Gene No.	60615	Strand	+
Start	80	End	162
Name	OJ000250_15.0222.C72.o1.gs	Method	GENSCAN
Start	80	End	162
GI	none	Score	.69
Exons	80..162		

Seq. No.	29372	Seq. ID	OJ000250_15.0222.C72
Gene No.	60616	Strand	-
Start	138	End	493
Name	OJ000250_15.0222.C72.o1.np	Method	AAT/NAP
Start	138	End	493
GI	5852182	Score	416
Exons	138..493		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	29372	Seq. ID	OJ000250_15.0222.C72
Gene No.	60616	Strand	-
Start	138	End	493
Name	OJ000250_15.0222.C72.o1.gp	Method	AAT/GAP
Start	327	End	493
GI	2310235	Score	239
Exons	327..493		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	29373	Seq. ID	OJ000250_08.0208.C1
Gene No.	60617	Strand	-
Start	1	End	298
Name	OJ000250_08.0208.C1.o1.np	Method	AAT/NAP
Start	1	End	298
GI	2498930	Score	143
Exons	1..64, 232..298		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	29373	Seq. ID	OJ000250_08.0208.C1
Gene No.	60617	Strand	-
Start	1	End	298
Name	OJ000250_08.0208.C1.o1.gs	Method	GENSCAN
Start	20	End	238
GI	none	Score	.83
Exons	20..64, 232..238		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60618	Strand	+
Start	1	End	5462
Name	OJ000250_08.0208.C2.o3.np	Method	AAT/NAP
Start	1	End	3067
GI	4680179	Score	4239
Exons	1..140, 330..3067		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
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Gene No.	60618	Strand	+
Start	1	End	5462
Name	OJ000250_08.0208.C2.o1.gs	Method	GENSCAN
Start	208	End	5462
GI	none	Score	.4
Exons	208..210, 497..1092, 1309..1913, 2096..2482, 2622..3075, 3851..3889, 4097..4170, 4351..5169, 5202..5259, 5270..5462		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60618	Strand	+
Start	1	End	5462
Name	OJ000250_08.0208.C2.o2.np	Method	AAT/NAP
Start	208	End	298
GI	6721561	Score	113
Exons	208..298		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60618	Strand	+
Start	1	End	5462
Name	OJ000250_08.0208.C2.o4.np	Method	AAT/NAP
Start	4093	End	5388
GI	6907087	Score	662
Exons	4093..4457, 4487..5184, 5302..5388		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60619	Strand	+
Start	6307	End	10939
Name	OJ000250_08.0208.C2.o5.np	Method	AAT/NAP
Start	6307	End	10939
GI	5852180	Score	459
Exons	6307..6360, 7338..7460, 8554..8636, 10471..10792, 10852..10939		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60619	Strand	+
Start	6307	End	10939
Name	OJ000250_08.0208.C2.o3.gp	Method	AAT/GAP
Start	8504	End	9238
GI	101153 1.R1084	Score	709
Exons	8504..8695, 9010..9238		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60619	Strand	+
Start	6307	End	10939
Name	OJ000250_08.0208.C2.o4.gp	Method	AAT/GAP
Start	9256	End	9688
GI	2428185	Score	750



Exons 9256..9688  
 GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60620	Strand	-
Start	86	End	4136
Name	OJ000250_08.0208.C2.o1.np	Method	AAT/NAP
Start	86	End	4136
GI	4680183	Score	101
Exons	86..242, 4117..4136		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o4.tw	Method	TBLASTX:Wheat
Start	455	End	804
GI	none	Score	59
Exons	455..523, 501..584, 505..582, 506..589, 583..717, 593..790, 595..804, 599..781, 609..794		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o3.tm	Method	TBLASTX:Maize
Start	602	End	1093
GI	none	Score	156
Exons	602..781, 767..1093, 853..984, 1009..1086		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o1.ts	Method	TBLASTX:Soybean
Start	656	End	1051
GI	none	Score	57
Exons	656..688, 658..687, 692..1051, 692..772, 808..1050		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o6.tw	Method	TBLASTX:Wheat
Start	805	End	1066
GI	none	Score	335
Exons	805..1065, 806..1066		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o2.tw	Method	TBLASTX:Wheat
Start	1067	End	1576
GI	none	Score	588
Exons	1067..1576, 1069..1485		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590

Name	OJ000250_08.0208.C2.o2.tm	Method	TBLASTX:Maize
Start	1139	End	1502
GI	none	Score	460
Exons	1139..1492, 1141..1485, 1191..1502		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o3.tw	Method	TBLASTX:Wheat
Start	1580	End	2058
GI	none	Score	395
Exons	1580..1957, 1678..1956, 1951..2058, 1959..2057		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o2.ts	Method	TBLASTX:Soybean
Start	1847	End	2106
GI	none	Score	93
Exons	1847..1954, 1852..1956, 1963..2106, 1968..2105		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o4.tm	Method	TBLASTX:Maize
Start	1907	End	2196
GI	none	Score	71
Exons	1907..1960, 1951..2196, 1960..2190, 1965..2192		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o1.tw	Method	TBLASTX:Wheat
Start	2065	End	2689
GI	none	Score	552
Exons	2065..2550, 2067..2549, 2545..2688, 2546..2689		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o1.tm	Method	TBLASTX:Maize
Start	2245	End	2842
GI	none	Score	217
Exons	2245..2406, 2253..2399, 2403..2534, 2404..2547, 2549..2842, 2569..2703, 2752..2829		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o5.tw	Method	TBLASTX:Wheat
Start	2689	End	3022
GI	none	Score	354
Exons	2689..3021, 2690..3022		

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590

Name	OJ000250_08.0208.C2.o5.tm	Method	TBLASTX:Maize
Start	2846	End	3043
GI	none	Score	191
Exons	2846..3043		

  

Seq. No.	29374	Seq. ID	OJ000250_08.0208.C2
Gene No.	60621	Strand	-
Start	6209	End	6590
Name	OJ000250_08.0208.C2.o1.gp	Method	AAT/GAP
Start	6209	End	6590
GI	uC-osflcyp033a04b1	Score	675
Exons	6209..6590		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29375	Seq. ID	OJ000250_08.0208.C3
Gene No.	60622	Strand	+
Start	537	End	3009
Name	OJ000250_08.0208.C3.o1.gs	Method	GENSCAN
Start	537	End	3009
GI	none	Score	.5
Exons	537..618, 1178..1305, 2573..2722, 2727..2857, 2940..3009		

Seq. No.	29375	Seq. ID	OJ000250_08.0208.C3
Gene No.	60622	Strand	+
Start	537	End	3009
Name	OJ000250_08.0208.C3.o1.np	Method	AAT/NAP
Start	537	End	638
GI	6907087	Score	134
Exons	537..638		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29375	Seq. ID	OJ000250_08.0208.C3
Gene No.	60623	Strand	+
Start	4202	End	4756
Name	OJ000250_08.0208.C3.o5.np	Method	AAT/NAP
Start	4202	End	4756
GI	6721561	Score	125
Exons	4202..4291, 4733..4756		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29375	Seq. ID	OJ000250_08.0208.C3
Gene No.	60624	Strand	-
Start	1028	End	2981
Name	OJ000250_08.0208.C3.o2.np	Method	AAT/NAP
Start	1028	End	2981
GI	4680186	Score	138
Exons	1028..1215, 2938..2981		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29375	Seq. ID	OJ000250_08.0208.C3
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Gene No.	60625	Strand	-
Start	4080	End	4756
Name	OJ000250_08.0208.C3.o4.np	Method	AAT/NAP
Start	4080	End	4756
GI	4680183	Score	110
Exons	4080..4171, 4712..4756		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29376	Seq. ID	OJ000250_08.0208.C4
Gene No.	60626	Strand	-
Start	1	End	746
Name	OJ000250_08.0208.C4.o1.np	Method	AAT/NAP
Start	1	End	746
GI	2274845	Score	95
Exons	1..269, 665..746		
GI Descrip.	(D88461) N-WASP [Rattus rattus]		

Seq. No.	29376	Seq. ID	OJ000250_08.0208.C4
Gene No.	60626	Strand	-
Start	1	End	746
Name	OJ000250_08.0208.C4.o1.gs	Method	GENSCAN
Start	44	End	493
GI	none	Score	.81
Exons	44..232, 275..340, 433..493		

Seq. No.	29377	Seq. ID	OJ000250_08.0208.C5
Gene No.	60627	Strand	+
Start	163	End	507
Name	OJ000250_08.0208.C5.o1.gs	Method	GENSCAN
Start	163	End	507
GI	none	Score	.84
Exons	163..205, 377..507		

Seq. No.	29378	Seq. ID	OJ000250_08.0208.C6
Gene No.	60628	Strand	+
Start	1041	End	12688
Name	OJ000250_08.0208.C6.o1.gs	Method	GENSCAN
Start	1041	End	11537
GI	none	Score	.58
Exons	1041..1084, 4889..4998, 5130..5232, 5647..5846, 7395..7610, 8831..8887, 9055..9294, 9823..9864, 10740..10864, 10873..11149, 11362..11537		

Seq. No.	29378	Seq. ID	OJ000250_08.0208.C6
Gene No.	60628	Strand	+
Start	1041	End	12688
Name	OJ000250_08.0208.C6.o3.np	Method	AAT/NAP
Start	3824	End	7777
GI	6815052	Score	200
Exons	3824..3897, 5880..6204, 6301..6441, 7742..7777		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	29378	Seq. ID	OJ000250_08.0208.C6
Gene No.	60628	Strand	+
Start	1041	End	12688
Name	OJ000250_08.0208.C6.o4.np	Method	AAT/NAP
Start	6665	End	12688

GI 6705984 Score 411  
 Exons 6665..6748, 9044..9571, 12584..12688  
 GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60628 Strand +  
 Start 1041 End 12688  
 Name OJ000250\_08.0208.C6.o5.np Method AAT/NAP  
 Start 8816 End 12348  
 GI 6498436 Score 403  
 Exons 8816..8858, 9704..9864, 9913..10417, 10517..10643, 10898..11078, 12218..12348  
 GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60628 Strand +  
 Start 1041 End 12688  
 Name OJ000250\_08.0208.C6.o2.np Method AAT/NAP  
 Start 9065 End 9539  
 GI 6705984 Score 432  
 Exons 9065..9539  
 GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60629 Strand -  
 Start 2508 End 2586  
 Name OJ000250\_08.0208.C6.o1.np Method AAT/NAP  
 Start 2508 End 2586  
 GI 6630699 Score 71  
 Exons 2508..2586  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60630 Strand  
 Start 5177 End 9553  
 Name OJ000250\_08.0208.C6.o1.tw Method TBLASTX:Wheat  
 Start 5177 End 9526  
 GI none Score 253  
 Exons 5177..5449, 5221..5448, 5453..5632, 5462..5614, 5473..5637, 9075..9338, 9110..9337, 9337..9417, 9342..9473, 9351..9497, 9362..9526

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60630 Strand  
 Start 5177 End 9553  
 Name OJ000250\_08.0208.C6.o1.ts Method TBLASTX:Soybean  
 Start 5246 End 9497  
 GI none Score 165  
 Exons 5246..5494, 5266..5490, 5486..5644, 5503..5634, 5632..5715, 9114..9383, 9155..9379, 9222..9383, 9375..9497, 9392..9496

Seq. No. 29378 Seq. ID OJ000250\_08.0208.C6  
 Gene No. 60630 Strand  
 Start 5177 End 9553  
 Name OJ000250\_08.0208.C6.o1.tm Method TBLASTX:Maize

Start	5413	End	9553
GI	none	Score	194
Exons	5413..5547, 5414..5647, 5423..5665, 9302..9436, 9303..9497, 9312..9485, 9470..9553		

Seq. No.	29379	Seq. ID	OJ000250_08.0208.C7
Gene No.	60631	Strand	+
Start	374	End	2430
Name	OJ000250_08.0208.C7.o1.gs	Method	GENSCAN
Start	374	End	2430
GI	none	Score	.58
Exons	374..1517, 1631..2430		

Seq. No.	29379	Seq. ID	OJ000250_08.0208.C7
Gene No.	60631	Strand	+
Start	374	End	2430
Name	OJ000250_08.0208.C7.o1.np	Method	AAT/NAP
Start	453	End	2172
GI	3645898	Score	630
Exons	453..1417, 1484..1952, 2025..2172		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	29379	Seq. ID	OJ000250_08.0208.C7
Gene No.	60631	Strand	+
Start	374	End	2430
Name	OJ000250_08.0208.C7.o1.tm	Method	TBLASTX:Maize
Start	677	End	1081
GI	none	Score	244
Exons	677..1081, 778..1068		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60632	Strand	+
Start	1	End	2826
Name	OJ000250_08.0208.C8.o1.np	Method	AAT/NAP
Start	1	End	2826
GI	6630685	Score	3508
Exons	1..1019, 1102..1138, 1169..2826		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60633	Strand	+
Start	9000	End	13622
Name	OJ000250_08.0208.C8.o3.gs	Method	GENSCAN
Start	9000	End	13622
GI	none	Score	.5
Exons	9000..9435, 10271..10386, 10874..11075, 11111..11209, 11300..11368, 13168..13622		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60634	Strand	+
Start	13777	End	15529
Name	OJ000250_08.0208.C8.o2.np	Method	AAT/NAP
Start	13777	End	15529
GI	6721516	Score	89
Exons	13777..14008, 15513..15529		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60635	Strand	-
Start	6740	End	8501
Name	OJ000250_08.0208.C8.o2.gs	Method	GENSCAN
Start	6740	End	8501
GI	none	Score	.74
Exons	6740..6981, 7902..8117, 8345..8501		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60636	Strand	-
Start	14456	End	18785
Name	OJ000250_08.0208.C8.o3.np	Method	AAT/NAP
Start	14456	End	18785
GI	6815052	Score	2556
Exons	14456..14575, 14857..14931, 15013..15750, 15799..15934, 16717..16809, 17679..17778, 18077..18194, 18476..18550, 18632..18785		

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o5.tm	Method	TBLASTX:Maize
Start	1	End	184
GI	none	Score	82
Exons	1..171, 11..184, 11..172, 13..183		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o2.tw	Method	TBLASTX:Wheat
Start	2	End	520
GI	none	Score	201
Exons	2..187, 25..177, 208..234, 214..519, 236..520		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o2.tm	Method	TBLASTX:Maize
Start	184	End	872
GI	none	Score	95
Exons	184..258, 185..256, 256..834, 257..847, 336..872		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o3.ts	Method	TBLASTX:Soybean
Start	365	End	826
GI	none	Score	227
Exons	365..676, 385..570, 725..826		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o4.tm	Method	TBLASTX:Maize

Start	1172	End	1458
GI	none	Score	90
Exons	1172..1237, 1228..1455, 1231..1458, 1236..1457		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o1.ts	Method	TBLASTX:Soybean
Start	1193	End	1799
GI	5509260	Score	71
Exons	1193..1237, 1194..1244, 1230..1412, 1231..1410, 1416..1799, 1417..1794		

GI Descrip. -

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o1.tw	Method	TBLASTX:Wheat
Start	1333	End	1785
GI	none	Score	82
Exons	1333..1407, 1408..1437, 1436..1771, 1438..1785, 1440..1772		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o1.tc	Method	TBLASTX:Cress
Start	1399	End	1680
GI	none	Score	214
Exons	1399..1680, 1404..1661		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o3.tm	Method	TBLASTX:Maize
Start	1459	End	1926
GI	none	Score	649
Exons	1459..1926, 1461..1925		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o6.tm	Method	TBLASTX:Maize
Start	1948	End	2151
GI	none	Score	245
Exons	1948..2151, 1968..2150		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o4.tw	Method	TBLASTX:Wheat
Start	1969	End	2385
GI	none	Score	89
Exons	1969..2133, 2149..2385		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713



Name	OJ000250_08.0208.C8.o1.tm	Method	TBLASTX:Maize
Start	2152	End	2829
GI	none	Score	972
Exons	2152..2823, 2159..2608, 2379..2762, 2536..2829		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o2.ts	Method	TBLASTX:Soybean
Start	2170	End	2811
GI	none	Score	291
Exons	2170..2568, 2203..2547, 2253..2558, 2578..2811, 2595..2663		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o5.tw	Method	TBLASTX:Wheat
Start	2395	End	2763
GI	none	Score	113
Exons	2395..2565, 2463..2564, 2587..2763, 2593..2760		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o3.tw	Method	TBLASTX:Wheat
Start	15989	End	16483
GI	none	Score	67
Exons	15989..16483, 16193..16459		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o1.gp	Method	AAT/GAP
Start	24011	End	24158
GI	702840	Score	233
Exons	24011..24158		
GI Descrip.	3880432/emb CAA91398.1  1.0e-10 (Z66521) similar to kinensin-like protein; cDNA EST yk198e10.3 comes from this gene; cDNA EST yk198e10.5 comes from this gene; cDNA EST yk654g10.3 comes from this gene [Caenorhabditis elegans]		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o7.tm	Method	TBLASTX:Maize
Start	24044	End	25713
GI	none	Score	166
Exons	24044..24154, 24045..24155, 24045..24161, 25485..25559, 25491..25568, 25572..25604, 25650..25709, 25675..25713		

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o4.ts	Method	TBLASTX:Soybean
Start	24050	End	25559
GI	none	Score	68
Exons	24050..24151, 24053..24154, 24054..24158, 24081..24161,		

24082..24162, 25470..25559

Seq. No.	29380	Seq. ID	OJ000250_08.0208.C8
Gene No.	60637	Strand	-
Start	25332	End	25713
Name	OJ000250_08.0208.C8.o6.gs	Method	GENSCAN
Start	25332	End	25700
GI	none	Score	.92
Exons	25332..25700		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60638	Strand	+
Start	1974	End	3493
Name	OJ000250_08.0208.C9.o1.np	Method	AAT/NAP
Start	1974	End	3493
GI	6815109	Score	513
Exons	1974..2738, 2910..3155, 3198..3493		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60639	Strand	+
Start	20491	End	20840
Name	OJ000250_08.0208.C9.o4.gs	Method	GENSCAN
Start	20491	End	20840
GI	none	Score	.84
Exons	20491..20557, 20710..20840		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60640	Strand	+
Start	21629	End	22466
Name	OJ000250_08.0208.C9.o5.gs	Method	GENSCAN
Start	21629	End	22466
GI	none	Score	.7
Exons	21629..21824, 22150..22466		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60640	Strand	+
Start	21629	End	22466
Name	OJ000250_08.0208.C9.o2.gp	Method	AAT/GAP
Start	21696	End	22328
GI	48804_1.R1084	Score	562
Exons	21696..21824, 22150..22328		
GI Descrip.	'3445201/gb AAC32431.1  1.0e-17 (AC004786) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60641	Strand	+
Start	22373	End	22961
Name	OJ000250_08.0208.C9.o3.gp	Method	AAT/GAP
Start	22373	End	22961
GI	none	Score	1040
Exons	22373..22961		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60642	Strand	+
Start	30800	End	32627
Name	OJ000250_08.0208.C9.o7.gs	Method	GENSCAN

Start 30800  
 GI none  
 Exons 30800..30941, 32584..32627

End 32627  
 Score .53

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60643 Strand +  
 Start 36012 End 42615  
 Name OJ000250\_08.0208.C9.o9.gs Method GENSCAN  
 Start 36012 End 42602  
 GI none Score .5  
 Exons 36012..36282, 36530..36658, 38105..38183, 39007..39193,  
 39991..40128, 40298..40421, 40691..40886, 41028..41560,  
 41662..42602

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60643 Strand +  
 Start 36012 End 42615  
 Name OJ000250\_08.0208.C9.o5.np Method AAT/NAP  
 Start 39938 End 42203  
 GI 6539588 Score 217  
 Exons 39938..39964, 40659..40899, 42159..42203  
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60643 Strand +  
 Start 36012 End 42615  
 Name OJ000250\_08.0208.C9.o7.np Method AAT/NAP  
 Start 42154 End 42615  
 GI 3645899 Score 204  
 Exons 42154..42615  
 GI Descrip. (U68408) 5' end not determined experimentally [Zea mays]

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60644 Strand -  
 Start 9709 End 16084  
 Name OJ000250\_08.0208.C9.o3.gs Method GENSCAN  
 Start 9709 End 16084  
 GI none Score .66  
 Exons 9709..9714, 9830..10011, 10240..10365, 10731..10781,  
 11407..11516, 15172..15603, 16062..16084

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60645 Strand -  
 Start 21598 End 21829  
 Name OJ000250\_08.0208.C9.o1.gp Method AAT/GAP  
 Start 21598 End 21829  
 GI 48804 1.R1084 Score 392  
 Exons 21598..21829  
 GI Descrip. '3445201/gb|AAC32431.1| 1.0e-17 (AC004786) unknown protein  
 [Arabidopsis thaliana]'

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
 Gene No. 60646 Strand -  
 Start 25653 End 41044  
 Name OJ000250\_08.0208.C9.o4.tm Method TBLASTX:Maize  
 Start 12689 End 13155  
 GI none Score 242

Exons 12689..13036, 13074..13151, 13075..13155

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o2.tw	Method	TBLASTX:Wheat
Start	12884	End	13253
GI	none	Score	105
Exons	12884..13051, 13042..13149, 13152..13253		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o1.tw	Method	TBLASTX:Wheat
Start	20665	End	21828
GI	none	Score	76
Exons	20665..20757, 21604..21819, 21614..21823, 21615..21824, 21620..21823, 21646..21828		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o3.tm	Method	TBLASTX:Maize
Start	21598	End	21834
GI	none	Score	212
Exons	21598..21819, 21602..21820, 21617..21823, 21646..21834		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o2.ts	Method	TBLASTX:Soybean
Start	22167	End	22353
GI	none	Score	189
Exons	22167..22307, 22172..22306, 22198..22353		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o2.tm	Method	TBLASTX:Maize
Start	22178	End	22562
GI	none	Score	147
Exons	22178..22366, 22184..22363, 22185..22370, 22186..22371, 22368..22463, 22369..22485, 22370..22486, 22471..22515, 22488..22514, 22533..22562		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o4.gp	Method	AAT/GAP
Start	25352	End	26064
GI	3955_1.R1084	Score	1096
Exons	25352..25827, 25937..26064		
GI Descrip.	'3880432/emb CAA91398.1  1.0e-10 (Z66521) similar to kinensin-like protein; cDNA EST yk198e10.3 comes from this gene; cDNA EST yk198e10.5 comes from this gene; cDNA EST yk654g10.3 comes from this gene [Caenorhabditis elegans]'		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o5.tm	Method	TBLASTX:Maize
Start	25534	End	25841
GI	none	Score	51
Exons	25534..25596, 25535..25582, 25574..25624, 25574..25624, 25653..25841, 25659..25829, 25670..25831		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o3.np	Method	AAT/NAP
Start	25647	End	39287
GI	4586105	Score	488
Exons	25647..25827, 25937..26154, 26244..26480, 28094..28288, 39207..39287		

GI Descrip. (AL049638) putative protein [Arabidopsis thaliana]

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o6.gs	Method	GENSCAN
Start	25653	End	28330
GI	none	Score	.56
Exons	25653..25827, 25937..26154, 26244..26480, 26696..26902, 28094..28330		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o1.tm	Method	TBLASTX:Maize
Start	25917	End	26483
GI	none	Score	157
Exons	25917..26150, 25939..26160, 25941..26129, 25946..26158, 26244..26483, 26245..26301, 26321..26458, 26388..26483		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o1.tc	Method	TBLASTX:Cress
Start	25939	End	26160
GI	none	Score	139
Exons	25939..26160, 25943..26152, 25945..26157		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o1.ts	Method	TBLASTX:Soybean
Start	26098	End	26477
GI	none	Score	250
Exons	26098..26151, 26247..26477		

Seq. No.	29381	Seq. ID	OJ000250_08.0208.C9
Gene No.	60646	Strand	-
Start	25653	End	41044
Name	OJ000250_08.0208.C9.o5.gp	Method	AAT/GAP

Start 28122  
GI 2442427  
Exons 28122..28520

End 28520  
Score 689

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
Gene No. 60646 Strand -  
Start 25653 End 41044  
Name OJ000250\_08.0208.C9.o8.gs Method GENSCAN  
Start 34058 End 34788  
GI none Score .42  
Exons 34058..34181, 34344..34527, 34728..34788

Seq. No. 29381 Seq. ID OJ000250\_08.0208.C9  
Gene No. 60646 Strand -  
Start 25653 End 41044  
Name OJ000250\_08.0208.C9.o4.np Method AAT/NAP  
Start 37044 End 41044  
GI 6721516 Score 544  
Exons 37044..37083, 38392..38686, 39097..39338, 40153..40318,  
40987..41044

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 29382 Seq. ID OJ000250\_08.0208.C10  
Gene No. 60647 Strand +  
Start 236 End 396  
Name OJ000250\_08.0208.C10.o1.gs Method GENSCAN  
Start 236 End 396  
GI none Score .97  
Exons 236..396

Seq. No. 29383 Seq. ID OJ000250\_09.0209.C1  
Gene No. 60648 Strand -  
Start 1 End 445  
Name OJ000250\_09.0209.C1.o1.np Method AAT/NAP  
Start 1 End 445  
GI 479357 Score 280  
Exons 1..445  
GI Descrip. hypothetical protein 612 - maize transposon MuA2  
gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]

Seq. No. 29383 Seq. ID OJ000250\_09.0209.C1  
Gene No. 60648 Strand -  
Start 1 End 445  
Name OJ000250\_09.0209.C1.o1.tm Method TBLASTX:Maize  
Start 191 End 445  
GI none Score 90  
Exons 191..445, 192..323

Seq. No. 29384 Seq. ID OJ000250\_09.0209.C2  
Gene No. 60649 Strand +  
Start 621 End 754  
Name OJ000250\_09.0209.C2.o1.gs Method GENSCAN  
Start 621 End 754  
GI none Score .62  
Exons 621..754

Seq. No. 29385 Seq. ID OJ000250\_09.0209.C4

Gene No.	60650	Strand	+
Start	1	End	672
Name	OJ000250_09.0209.C4.o1.np	Method	AAT/NAP
Start	1	End	672
GI	5441880	Score	299
Exons	1..27, 154..247, 494..672		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29385	Seq. ID	OJ000250_09.0209.C4
Gene No.	60650	Strand	+
Start	1	End	672
Name	OJ000250_09.0209.C4.o1.gs	Method	GENSCAN
Start	150	End	625
GI	none	Score	.66
Exons	150..247, 494..625		

Seq. No.	29386	Seq. ID	OJ000250_09.0209.C5
Gene No.	60651	Strand	-
Start	122	End	206
Name	OJ000250_09.0209.C5.o1.gs	Method	GENSCAN
Start	122	End	206
GI	none	Score	.57
Exons	122..206		

Seq. No.	29387	Seq. ID	OJ000250_09.0209.C6
Gene No.	60652	Strand	-
Start	445	End	589
Name	OJ000250_09.0209.C6.o1.gs	Method	GENSCAN
Start	445	End	589
GI	none	Score	.58
Exons	445..589		

Seq. No.	29388	Seq. ID	OJ000250_09.0209.C7
Gene No.	60653	Strand	+
Start	1	End	577
Name	OJ000250_09.0209.C7.o1.np	Method	AAT/NAP
Start	1	End	577
GI	6714447	Score	332
Exons	1..33, 232..350, 428..577		
GI Descrip.	(AC011620) putative phospholipase D [Arabidopsis thaliana]		

Seq. No.	29388	Seq. ID	OJ000250_09.0209.C7
Gene No.	60653	Strand	+
Start	1	End	577
Name	OJ000250_09.0209.C7.o1.gs	Method	GENSCAN
Start	211	End	577
GI	none	Score	.69
Exons	211..350, 428..577		

Seq. No.	29388	Seq. ID	OJ000250_09.0209.C7
Gene No.	60654	Strand	-
Start	204	End	278
Name	OJ000250_09.0209.C7.o1.gp	Method	AAT/GAP
Start	204	End	278
GI	uC-osf1M202097d01b1	Score	119

Exons 204..278  
 GI Descrip. '2773042 5.0e-26 (AF038440) phospholipase D2 [Homo sapiens]'

Seq. No.	29388	Seq. ID	OJ000250_09.0209.C7
Gene No.	60655	Strand	
Start	440	End	597
Name	OJ000250_09.0209.C7.o1.tc	Method	TBLASTX:Cress
Start	440	End	597
GI	none	Score	209
Exons	440..580, 441..587, 445..597		

Seq. No.	29389	Seq. ID	OJ000250_09.0209.C11
Gene No.	60656	Strand	+
Start	204	End	319
Name	OJ000250_09.0209.C11.o1.gs	Method	GENSCAN
Start	204	End	319
GI	none	Score	.97
Exons	204..319		

Seq. No.	29390	Seq. ID	OJ000250_09.0209.C15
Gene No.	60657	Strand	-
Start	1	End	493
Name	OJ000250_09.0209.C15.o1.np	Method	AAT/NAP
Start	1	End	493
GI	5903070	Score	68
Exons	1..40, 100..252, 441..493		
GI Descrip.	(AC008017) Putative threonine synthase [Arabidopsis thaliana]		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60658	Strand	-
Start	1	End	2444
Name	OJ000250_09.0209.C16.o1.np	Method	AAT/NAP
Start	1	End	923
GI	3169012	Score	616
Exons	1..33, 312..923		
GI Descrip.	(AJ002610) putative calmodulin binding transporter protein [Hordeum vulgare]		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60658	Strand	-
Start	1	End	2444
Name	OJ000250_09.0209.C16.o1.gp	Method	AAT/GAP
Start	591	End	2444
GI	uC-osrocyp014h07b1	Score	937
Exons	591..897, 2252..2444		
GI Descrip.	'3169012/emb CAA05637  5.0e-34 (AJ002610) putative calmodulin binding transporter protein [Hordeum vulgare]'		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60659	Strand	-
Start	4770	End	7516
Name	OJ000250_09.0209.C16.o3.tm	Method	TBLASTX:Maize
Start	369	End	627
GI	none	Score	256
Exons	369..599, 377..616, 379..627		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
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Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o1.tc  
 Start 376  
 GI none  
 Exons 376..783, 386..733

Strand -  
 End 7516  
 Method TBLASTX:Cress  
 End 783  
 Score 260

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o1.ts  
 Start 377  
 GI none  
 Exons 377..610, 379..609

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method TBLASTX:Soybean  
 End 610  
 Score 191

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o4.tm  
 Start 4533  
 GI none  
 Exons 4533..4595, 4549..4599, 4600..4656, 4601..4660, 4657..4701, 4719..4781, 4720..4764

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method TBLASTX:Maize  
 End 4781  
 Score 65

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o2.np  
 Start 4770  
 GI 6466937  
 Exons 4770..7332, 7372..7516  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method AAT/NAP  
 End 7516  
 Score 1006

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o1.tm  
 Start 4848  
 GI none  
 Exons 4848..4880, 4848..4895, 4884..5006, 4892..4987, 4978..5124, 4992..5129, 5118..5201, 5119..5199, 5195..5368, 5231..5335

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method TBLASTX:Maize  
 End 5368  
 Score 38

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o2.ts  
 Start 5118  
 GI none  
 Exons 5118..5201, 5195..5458

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method TBLASTX:Soybean  
 End 5458  
 Score 188

Seq. No. 29391  
 Gene No. 60659  
 Start 4770  
 Name OJ000250\_09.0209.C16.o1.tw  
 Start 5202  
 GI none

Seq. ID OJ000250\_09.0209.C16  
 Strand -  
 End 7516  
 Method TBLASTX:Wheat  
 End 5527  
 Score 59

Exons 5202..5354, 5219..5527, 5228..5527

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60659	Strand	-
Start	4770	End	7516
Name	OJ000250_09.0209.C16.o2.tm	Method	TBLASTX:Maize
Start	5387	End	5859
GI	none	Score	96
Exons	5387..5611, 5415..5582, 5483..5614, 5613..5639, 5623..5769, 5638..5859, 5639..5857		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60659	Strand	-
Start	4770	End	7516
Name	OJ000250_09.0209.C16.o3.ts	Method	TBLASTX:Soybean
Start	5681	End	5883
GI	none	Score	88
Exons	5681..5860, 5683..5883		

Seq. No.	29391	Seq. ID	OJ000250_09.0209.C16
Gene No.	60659	Strand	-
Start	4770	End	7516
Name	OJ000250_09.0209.C16.o5.tm	Method	TBLASTX:Maize
Start	6877	End	7275
GI	none	Score	101
Exons	6877..7134, 7153..7275		

Seq. No.	29392	Seq. ID	OJ000250_09.0209.C17
Gene No.	60660	Strand	+
Start	127	End	1015
Name	OJ000250_09.0209.C17.o1.gs	Method	GENSCAN
Start	127	End	1015
GI	none	Score	.68
Exons	127..237, 945..1015		

Seq. No.	29392	Seq. ID	OJ000250_09.0209.C17
Gene No.	60661	Strand	-
Start	1650	End	1916
Name	OJ000250_09.0209.C17.o1.tm	Method	TBLASTX:Maize
Start	1630	End	1916
GI	none	Score	270
Exons	1630..1914, 1644..1916		

Seq. No.	29392	Seq. ID	OJ000250_09.0209.C17
Gene No.	60661	Strand	-
Start	1650	End	1916
Name	OJ000250_09.0209.C17.o1.ts	Method	TBLASTX:Soybean
Start	1645	End	1901
GI	none	Score	125
Exons	1645..1845, 1647..1901		

Seq. No.	29392	Seq. ID	OJ000250_09.0209.C17
Gene No.	60661	Strand	-
Start	1650	End	1916
Name	OJ000250_09.0209.C17.o1.np	Method	AAT/NAP
Start	1650	End	1916
GI	3169012	Score	389

Exons 1650..1916  
 GI Descrip. (AJ002610) putative calmodulin binding transporter protein  
 [Hordeum vulgare]

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.np Method AAT/NAP  
 Start 1 End 2423  
 GI 3169012 Score 701  
 Exons 1..75, 1103..1367, 1942..2053, 2149..2423  
 GI Descrip. (AJ002610) putative calmodulin binding transporter protein  
 [Hordeum vulgare]

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.gs Method GENSCAN  
 Start 390 End 2053  
 GI none Score .79  
 Exons 390..500, 1131..1367, 1555..1641, 1942..2053

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.gp Method AAT/GAP  
 Start 1128 End 1271  
 GI LIB3432-060-P1-K1-B2 Score 251  
 Exons 1128..1271  
 GI Descrip. '3169012/emb|CAA05637| 2.0e-85 (AJ002610) putative calmodulin  
 binding transporter protein [Hordeum vulgare]'

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.tc Method TBLASTX:Cress  
 Start 1128 End 2426  
 GI none Score 105  
 Exons 1128..1373, 1129..1242, 1131..1370, 1294..1371, 1942..2055,  
 1943..2056, 2143..2217, 2151..2222, 2316..2426, 2316..2423

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.ts Method TBLASTX:Soybean  
 Start 1128 End 1361  
 GI none Score 80  
 Exons 1128..1361, 1129..1242, 1176..1343, 1297..1344

Seq. No. 29393 Seq. ID OJ000250\_09.0209.C18  
 Gene No. 60662 Strand -  
 Start 1 End 2426  
 Name OJ000250\_09.0209.C18.o1.tm Method TBLASTX:Maize  
 Start 1128 End 1334  
 GI none Score 153  
 Exons 1128..1334, 1129..1242, 1131..1334

Seq. No.	29393	Seq. ID	OJ000250_09.0209.C18
Gene No.	60662	Strand	-
Start	1	End	2426
Name	OJ000250_09.0209.C18.o2.tm	Method	TBLASTX:Maize
Start	1942	End	2423
GI	none	Score	61
Exons	1942..2055, 1946..2074, 2116..2265, 2151..2249, 2358..2423		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60663	Strand	-
Start	1	End	3996
Name	OJ000250_09.0209.C19.o1.np	Method	AAT/NAP
Start	1	End	2345
GI	3169012	Score	911
Exons	1..35, 266..482, 919..1435, 2320..2345		
GI Descrip.	(AJ002610) putative calmodulin binding transporter protein [Hordeum vulgare]		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60663	Strand	-
Start	1	End	3996
Name	OJ000250_09.0209.C19.o1.gs	Method	GENSCAN
Start	270	End	3996
GI	none	Score	.69
Exons	270..482, 919..1254, 2320..2404, 3404..3488, 3708..3996		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60664	Strand	-
Start	6328	End	6599
Name	OJ000250_09.0209.C19.o1.tc	Method	TBLASTX:Cress
Start	267	End	1312
GI	none	Score	138
Exons	267..485, 268..480, 913..1278, 916..1269, 923..1312		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60664	Strand	-
Start	6328	End	6599
Name	OJ000250_09.0209.C19.o2.ts	Method	TBLASTX:Soybean
Start	270	End	485
GI	none	Score	143
Exons	270..485, 274..477		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60664	Strand	-
Start	6328	End	6599
Name	OJ000250_09.0209.C19.o1.tm	Method	TBLASTX:Maize
Start	270	End	1164
GI	none	Score	174
Exons	270..485, 270..485, 914..1153, 916..1164, 918..1160		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60664	Strand	-
Start	6328	End	6599
Name	OJ000250_09.0209.C19.o1.ts	Method	TBLASTX:Soybean
Start	914	End	1147
GI	none	Score	201
Exons	914..1147, 916..1146		

Seq. No.	29394	Seq. ID	OJ000250_09.0209.C19
Gene No.	60664	Strand	-
Start	6328	End	6599
Name	OJ000250_09.0209.C19.o2.gs	Method	GENSCAN
Start	6328	End	6599
GI	none	Score	.99
Exons	6328..6427, 6499..6599		
Seq. No.	29395	Seq. ID	OJ000250_09.0209.C20
Gene No.	60665	Strand	+
Start	307	End	618
Name	OJ000250_09.0209.C20.o1.gp	Method	AAT/GAP
Start	307	End	618
GI	72524_1.R1084	Score	418
Exons	307..618		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		
Seq. No.	29395	Seq. ID	OJ000250_09.0209.C20
Gene No.	60666	Strand	-
Start	156	End	3824
Name	OJ000250_09.0209.C20.o1.np	Method	AAT/NAP
Start	156	End	3824
GI	5091513	Score	492
Exons	156..211, 1922..2102, 2404..2535, 3093..3246, 3295..3824		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	29395	Seq. ID	OJ000250_09.0209.C20
Gene No.	60666	Strand	-
Start	156	End	3824
Name	OJ000250_09.0209.C20.o2.gs	Method	GENSCAN
Start	2819	End	3741
GI	none	Score	.69
Exons	2819..3246, 3504..3741		
Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60667	Strand	+
Start	44	End	437
Name	OJ000250_09.0209.C21.o1.gs	Method	GENSCAN
Start	44	End	437
GI	none	Score	.52
Exons	44..437		
Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60668	Strand	+
Start	2743	End	5928
Name	OJ000250_09.0209.C21.o2.np	Method	AAT/NAP
Start	2743	End	5928
GI	3281853	Score	461
Exons	2743..2875, 3731..3881, 3960..4058, 4162..4323, 4690..4773, 4881..4985, 5295..5532, 5721..5928		
GI Descrip.	(AL031004) putative protein [Arabidopsis thaliana]		
Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60668	Strand	+
Start	2743	End	5928

Name	OJ000250_09.0209.C21.o3.gs	Method	GENSCAN
Start	3023	End	5867
GI	none	Score	.77
Exons	3023..3122, 3960..4118, 4162..4323, 4690..4776, 4884..4975, 5458..5532, 5697..5867		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60668	Strand	+
Start	2743	End	5928
Name	OJ000250_09.0209.C21.o2.gp	Method	AAT/GAP
Start	3141	End	3452
GI	72524_1.R1084	Score	419
Exons	3141..3452		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60669	Strand	+
Start	7156	End	11199
Name	OJ000250_09.0209.C21.o3.np	Method	AAT/NAP
Start	7156	End	10696
GI	3281853	Score	490
Exons	7156..7308, 8486..8613, 8700..8813, 8921..9067, 9375..9461, 9569..9804, 10143..10229, 10492..10696		
GI Descrip.	(AL031004) putative protein [Arabidopsis thaliana]		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60669	Strand	+
Start	7156	End	11199
Name	OJ000250_09.0209.C21.o4.gs	Method	GENSCAN
Start	7997	End	11199
GI	none	Score	.8
Exons	7997..8343, 8686..8837, 8906..9067, 9375..9461, 9569..9660, 10155..10229, 11017..11199		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60670	Strand	+
Start	12987	End	15316
Name	OJ000250_09.0209.C21.o5.gs	Method	GENSCAN
Start	12987	End	14351
GI	none	Score	.99
Exons	12987..14351		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60670	Strand	+
Start	12987	End	15316
Name	OJ000250_09.0209.C21.o4.np	Method	AAT/NAP
Start	13191	End	15316
GI	3776025	Score	161
Exons	13191..13234, 13520..14347, 14889..14997, 15281..15316		
GI Descrip.	(AJ010474) RNA helicase [Arabidopsis thaliana]		

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60671	Strand	-
Start	1	End	2450
Name	OJ000250_09.0209.C21.o1.np	Method	AAT/NAP
Start	1	End	2100

GI 5091513 Score 1594  
Exons 1..599, 1255..2100  
GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No. 29396 Seq. ID OJ000250\_09.0209.C21  
Gene No. 60671 Strand -  
Start 1 End 2450  
Name OJ000250\_09.0209.C21.o2.gs Method GENSCAN  
Start 1167 End 2450  
GI none Score .59  
Exons 1167..2143, 2312..2450

Seq. No. 29396 Seq. ID OJ000250\_09.0209.C21  
Gene No. 60672 Strand  
Start 3752 End 10623  
Name OJ000250\_09.0209.C21.o1.ts Method TBLASTX:Soybean  
Start 3752 End 10608  
GI none Score 108  
Exons 3752..3883, 3959..4063, 4209..4319, 4220..4327, 4689..4778,  
4879..4977, 4880..4975, 5452..5532, 5715..5837, 8484..8615,  
8492..8614, 8695..8796, 8699..8812, 8953..9063, 8964..9071,  
9374..9463, 9574..9660, 9574..9663, 10149..10229, 10486..10608

Seq. No. 29396 Seq. ID OJ000250\_09.0209.C21  
Gene No. 60672 Strand  
Start 3752 End 10623  
Name OJ000250\_09.0209.C21.o1.tw Method TBLASTX:Wheat  
Start 3752 End 9056  
GI none Score 133  
Exons 3752..3883, 3752..3883, 3959..4060, 3970..4059, 4164..4256,  
4212..4304, 4220..4312, 8483..8614, 8484..8615, 8484..8615,  
8695..8799, 8699..8809, 8699..8800, 8908..9000, 8961..9056,  
8962..9048

Seq. No. 29396 Seq. ID OJ000250\_09.0209.C21  
Gene No. 60672 Strand  
Start 3752 End 10623  
Name OJ000250\_09.0209.C21.o1.tm Method TBLASTX:Maize  
Start 3755 End 10623  
GI none Score 143  
Exons 3755..3883, 3808..3882, 3884..4060, 3970..4059, 4164..4211,  
4209..4322, 4211..4342, 4668..4769, 4689..4778, 4880..4975,  
4885..4977, 4889..4978, 4890..4979, 5450..5542, 5452..5532,  
5456..5533, 5715..5852, 5715..5849, 8483..8614, 8487..8615,  
8695..8799, 8699..8809, 8908..9000, 8962..9078, 8964..9086,  
9374..9463, 9390..9455, 9570..9662, 9574..9660, 9574..9675,  
10147..10233, 10149..10229, 10153..10230, 10486..10623,  
10491..10613

Seq. No. 29396 Seq. ID OJ000250\_09.0209.C21  
Gene No. 60672 Strand  
Start 3752 End 10623  
Name OJ000250\_09.0209.C21.o1.tc Method TBLASTX:Cress  
Start 4221 End 10608  
GI none Score 96  
Exons 4221..4319, 4226..4318, 4686..4769, 4689..4778, 4879..5004,  
4880..4975, 5476..5532, 5715..5837, 8965..9063, 8970..9062,

9374..9463, 9574..9660, 10176..10229, 10486..10608

Seq. No.	29396	Seq. ID	OJ000250_09.0209.C21
Gene No.	60673	Strand	
Start	13098	End	13271
Name	OJ000250_09.0209.C21.o2.tm	Method	TBLASTX:Maize
Start	13098	End	13271
GI	none	Score	190
Exons	13098..13271, 13100..13270		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60674	Strand	+
Start	1	End	12507
Name	OJ000250_09.0209.C23.o4.np	Method	AAT/NAP
Start	1	End	12507
GI	5262156	Score	250
Exons	1..119, 11538..11669, 11737..11844, 12244..12507		
GI Descrip.	(AL080237) putative protein [Arabidopsis thaliana]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60674	Strand	+
Start	1	End	12507
Name	OJ000250_09.0209.C23.o1.np	Method	AAT/NAP
Start	98	End	3873
GI	3776023	Score	1379
Exons	98..167, 270..494, 576..782, 853..939, 1061..1156, 1223..1438, 1674..1856, 3590..3873		
GI Descrip.	(AJ010473) RNA helicase [Arabidopsis thaliana]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60674	Strand	+
Start	1	End	12507
Name	OJ000250_09.0209.C23.o1.gs	Method	GENSCAN
Start	270	End	4632
GI	none	Score	.95
Exons	270..494, 576..782, 853..939, 1061..1156, 1250..1438, 1674..1856, 3590..3800, 4433..4470, 4582..4632		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60674	Strand	+
Start	1	End	12507
Name	OJ000250_09.0209.C23.o3.gs	Method	GENSCAN
Start	9895	End	12411
GI	none	Score	.85
Exons	9895..10103, 11745..11844, 12244..12411		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60675	Strand	+
Start	14713	End	20226
Name	OJ000250_09.0209.C23.o4.gs	Method	GENSCAN
Start	14713	End	20226
GI	none	Score	.44
Exons	14713..14922, 17072..17287, 18213..18340, 18673..18799, 19957..20226		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60675	Strand	+



Start	14713	End	20226
Name	OJ000250_09.0209.C23.o5.np	Method	AAT/NAP
Start	14800	End	17891
GI	4455351	Score	479
Exons	14800..14922, 17072..17287, 17662..17891		
GI Descrip.	(AL035524) putative protein [Arabidopsis thaliana]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60676	Strand	+
Start	24397	End	24960
Name	OJ000250_09.0209.C23.o6.gs	Method	GENSCAN
Start	24397	End	24960
GI	none	Score	.7
Exons	24397..24960		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60677	Strand	+
Start	30815	End	31594
Name	OJ000250_09.0209.C23.o7.np	Method	AAT/NAP
Start	30815	End	31594
GI	4726116	Score	262
Exons	30815..30996, 31049..31594		
GI Descrip.	(AC006436) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60678	Strand	-
Start	2827	End	11206
Name	OJ000250_09.0209.C23.o2.np	Method	AAT/NAP
Start	2827	End	7237
GI	2130141	Score	523
Exons	2827..2850, 5091..5690, 5781..6108, 6142..6272, 7123..7237		
GI Descrip.	mudrA protein - maize transposon MuDR gi 540581 (M76978) mudrA [Zea mays] gi 595816 (U14597) mudrA gene product [Zea mays]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60678	Strand	-
Start	2827	End	11206
Name	OJ000250_09.0209.C23.o2.gs	Method	GENSCAN
Start	5072	End	7661
GI	none	Score	.56
Exons	5072..5305, 5785..5966, 6041..6162, 6170..6290, 6333..6394, 6500..6545, 6706..6778, 7153..7298, 7340..7661		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60678	Strand	-
Start	2827	End	11206
Name	OJ000250_09.0209.C23.o3.np	Method	AAT/NAP
Start	6782	End	11206
GI	6815052	Score	364
Exons	6782..6903, 7184..7258, 7340..7523, 11147..11206		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60679	Strand	-
Start	22319	End	22793
Name	OJ000250_09.0209.C23.o5.gs	Method	GENSCAN
Start	22319	End	22793

GI none Score .65  
Exons 22319..22393, 22472..22618, 22641..22793

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o5.tm Method TBLASTX:Maize  
Start 84 End 401  
GI none Score 105  
Exons 84..170, 107..169, 254..400, 269..361, 270..401, 279..398

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o1.tc Method TBLASTX:Cress  
Start 98 End 3808  
GI none Score 97  
Exons 98..169, 99..170, 254..493, 269..493, 270..500, 279..497,  
573..785, 573..782, 575..802, 852..932, 853..942, 1052..1159,  
1052..1156, 1060..1161, 1220..1441, 1220..1339, 1222..1434,  
1388..1441, 1656..1865, 1658..1858, 1689..1859, 3587..3808,  
3590..3808

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o4.ts Method TBLASTX:Soybean  
Start 378 End 653  
GI none Score 135  
Exons 378..500, 404..490, 560..652, 573..653

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o1.tm Method TBLASTX:Maize  
Start 401 End 1131  
GI none Score 170  
Exons 401..493, 402..500, 573..785, 575..784, 842..940, 850..942,  
852..941, 853..942, 1052..1129, 1052..1129, 1057..1131,  
1057..1131

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o2.ts Method TBLASTX:Soybean  
Start 656 End 942  
GI none Score 183  
Exons 656..784, 657..785, 852..941, 853..942

Seq. No. 29397 Seq. ID OJ000250\_09.0209.C23  
Gene No. 60680 Strand -  
Start 26730 End 30277  
Name OJ000250\_09.0209.C23.o1.ts Method TBLASTX:Soybean  
Start 1081 End 1745  
GI none Score 87  
Exons 1081..1158, 1082..1159, 1220..1441, 1220..1339, 1222..1440,  
1665..1745, 1670..1744

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o3.tm	Method	TBLASTX:Maize
Start	1132	End	1857
GI	none	Score	45
Exons	1132..1167, 1133..1159, 1220..1441, 1220..1342, 1221..1433, 1222..1434, 1382..1438, 1665..1856, 1669..1857, 1669..1854, 1670..1855, 1689..1856		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o2.tm	Method	TBLASTX:Maize
Start	3589	End	3818
GI	none	Score	357
Exons	3589..3816, 3590..3817, 3597..3818		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o6.tm	Method	TBLASTX:Maize
Start	5337	End	5673
GI	none	Score	65
Exons	5337..5462, 5338..5673, 5339..5470		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o2.tc	Method	TBLASTX:Cress
Start	11561	End	17858
GI	none	Score	131
Exons	11561..11647, 11562..11675, 11737..11826, 11745..11825, 11821..11853, 12298..12402, 17071..17202, 17072..17269, 17264..17296, 17738..17857, 17739..17858		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o4.tm	Method	TBLASTX:Maize
Start	11561	End	17872
GI	none	Score	146
Exons	11561..11647, 11562..11675, 11563..11664, 11574..11666, 11727..11840, 11737..11844, 12238..12288, 12241..12402, 12246..12344, 12304..12390, 14786..14917, 14788..14919, 17071..17283, 17072..17287, 17084..17287, 17685..17867, 17687..17872		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o3.ts	Method	TBLASTX:Soybean
Start	11562	End	17858
GI	none	Score	126
Exons	11562..11675, 11737..11844, 12241..12402, 12244..12393, 17063..17284, 17072..17287, 17685..17858, 17685..17849,		

17687..17857

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o7.gs	Method	GENSCAN
Start	26730	End	30277
GI	none	Score	.72
Exons	26730..26810, 28304..28924, 29774..30277		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60680	Strand	-
Start	26730	End	30277
Name	OJ000250_09.0209.C23.o6.np	Method	AAT/NAP
Start	27561	End	29869
GI	6862916	Score	268
Exons	27561..27633, 28291..28478, 28675..28924, 29774..29869		
GI Descrip.	(AC018907) putative helix-loop-helix DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60681	Strand	-
Start	31044	End	31477
Name	OJ000250_09.0209.C23.o7.tm	Method	TBLASTX:Maize
Start	31044	End	31477
GI	none	Score	123
Exons	31044..31154, 31045..31218, 31235..31372, 31406..31477		

Seq. No.	29397	Seq. ID	OJ000250_09.0209.C23
Gene No.	60681	Strand	-
Start	31044	End	31477
Name	OJ000250_09.0209.C23.o1.tw	Method	TBLASTX:Wheat
Start	31062	End	31462
GI	none	Score	124
Exons	31062..31172, 31063..31218, 31246..31398, 31247..31462		

Seq. No.	29398	Seq. ID	OJ000250_09.0209.C24
Gene No.	60682	Strand	+
Start	292	End	1089
Name	OJ000250_09.0209.C24.o1.gs	Method	GENSCAN
Start	292	End	1089
GI	none	Score	.44
Exons	292..458, 1019..1089		

Seq. No.	29398	Seq. ID	OJ000250_09.0209.C24
Gene No.	60683	Strand	+
Start	3040	End	7948
Name	OJ000250_09.0209.C24.o1.np	Method	AAT/NAP
Start	3040	End	7948
GI	6539553	Score	2154
Exons	3040..3066, 6656..7948		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	29398	Seq. ID	OJ000250_09.0209.C24
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Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o2.tm  
 Start 6659  
 GI none  
 Exons 6659..7051, 6722..6904

Strand +  
 End 7948  
 Method TBLASTX:Maize  
 End 7051  
 Score 298

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o2.ts  
 Start 6659  
 GI none  
 Exons 6659..6967, 6728..6961

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Soybean  
 End 6967  
 Score 261

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o2.tw  
 Start 6659  
 GI none  
 Exons 6659..6931, 6734..6907, 6926..7132, 7000..7122

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Wheat  
 End 7132  
 Score 251

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o1.ts  
 Start 6985  
 GI none  
 Exons 6985..7185, 6986..7330

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Soybean  
 End 7330  
 Score 314

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o1.tm  
 Start 7141  
 GI none  
 Exons 7141..7479, 7142..7468

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Maize  
 End 7479  
 Score 317

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o1.tw  
 Start 7336  
 GI none  
 Exons 7336..7407, 7337..7411, 7338..7409, 7426..7812, 7427..7774

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Wheat  
 End 7812  
 Score 101

Seq. No. 29398  
 Gene No. 60683  
 Start 3040  
 Name OJ000250\_09.0209.C24.o3.ts  
 Start 7343  
 GI none  
 Exons 7343..7456, 7369..7449, 7468..7605, 7469..7684

Seq. ID OJ000250\_09.0209.C24  
 Strand +  
 End 7948  
 Method TBLASTX:Soybean  
 End 7684  
 Score 91

Seq. No. 29399  
 Gene No. 60684

Seq. ID OJ000250\_09.0209.C25  
 Strand +

Start	1189	End	4077
Name	OJ000250_09.0209.C25.o1.gs	Method	GENSCAN
Start	1189	End	4077
GI	none	Score	.66
Exons	1189..1204, 2278..2414, 3847..4077		

Seq. No.	29399	Seq. ID	OJ000250_09.0209.C25
Gene No.	60685	Strand	-
Start	4712	End	5602
Name	OJ000250_09.0209.C25.o2.gs	Method	GENSCAN
Start	4712	End	5527
GI	none	Score	.95
Exons	4712..5527		

Seq. No.	29399	Seq. ID	OJ000250_09.0209.C25
Gene No.	60685	Strand	-
Start	4712	End	5602
Name	OJ000250_09.0209.C25.o1.np	Method	AAT/NAP
Start	4715	End	5602
GI	6498441	Score	1360
Exons	4715..4996, 5090..5602		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	29399	Seq. ID	OJ000250_09.0209.C25
Gene No.	60685	Strand	-
Start	4712	End	5602
Name	OJ000250_09.0209.C25.o2.tm	Method	TBLASTX:Maize
Start	4715	End	4855
GI	none	Score	109
Exons	4715..4855, 4716..4850		

Seq. No.	29399	Seq. ID	OJ000250_09.0209.C25
Gene No.	60685	Strand	-
Start	4712	End	5602
Name	OJ000250_09.0209.C25.o1.tw	Method	TBLASTX:Wheat
Start	5222	End	5602
GI	none	Score	121
Exons	5222..5602, 5225..5581, 5529..5597		

Seq. No.	29399	Seq. ID	OJ000250_09.0209.C25
Gene No.	60685	Strand	-
Start	4712	End	5602
Name	OJ000250_09.0209.C25.o1.tm	Method	TBLASTX:Maize
Start	5309	End	5590
GI	none	Score	54
Exons	5309..5422, 5355..5402, 5420..5590, 5456..5590		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60686	Strand	+
Start	1	End	11668
Name	OJ000250_09.0209.C26.o3.np	Method	AAT/NAP
Start	1	End	11668
GI	4539396	Score	74
Exons	1..135, 398..456, 3054..3340, 4086..4176, 5920..6231, 8059..8143, 11156..11245, 11336..11668		

GI Descrip. (AL035526) extensin-like protein [Arabidopsis thaliana]

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60686	Strand	+
Start	1	End	11668
Name	OJ000250_09.0209.C26.o2.np	Method	AAT/NAP
Start	5032	End	7530
GI	5922623	Score	279
Exons	5032..5112, 5500..5658, 5826..5901, 7497..7530		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60687	Strand	+
Start	12698	End	13906
Name	OJ000250_09.0209.C26.o4.np	Method	AAT/NAP
Start	12698	End	13906
GI	5852176	Score	245
Exons	12698..13128, 13886..13906		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o1.np	Method	AAT/NAP
Start	1	End	4449
GI	6498441	Score	4971
Exons	1..573, 745..1229, 1422..1660, 1837..1971, 2155..2528, 2592..3055, 3386..4449		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o6.tw	Method	TBLASTX:Wheat
Start	142	End	436
GI	none	Score	80
Exons	142..384, 235..423, 260..436		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o2.ts	Method	TBLASTX:Soybean
Start	184	End	750
GI	5666795	Score	68
Exons	184..384, 439..576, 652..750		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o4.tw	Method	TBLASTX:Wheat
Start	439	End	3901
GI	none	Score	92

Exons 439..588, 440..577, 635..808, 649..858, 649..873, 3848..3901

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o1.ts	Method	TBLASTX:Soybean
Start	1498	End	1871
GI	none	Score	83
Exons	1498..1740, 1728..1871, 1729..1854		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o2.tw	Method	TBLASTX:Wheat
Start	1523	End	1950
GI	none	Score	126
Exons	1523..1708, 1528..1740, 1728..1949, 1729..1950		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o2.tm	Method	TBLASTX:Maize
Start	1621	End	2007
GI	none	Score	203
Exons	1621..1731, 1713..2006, 1714..2007		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o1.tm	Method	TBLASTX:Maize
Start	2034	End	2390
GI	none	Score	67
Exons	2034..2150, 2034..2390, 2044..2355		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o1.tw	Method	TBLASTX:Wheat
Start	2058	End	2520
GI	none	Score	392
Exons	2058..2519, 2059..2520		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o3.ts	Method	TBLASTX:Soybean
Start	2115	End	2480
GI	none	Score	117
Exons	2115..2249, 2256..2480		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o3.tw	Method	TBLASTX:Wheat
Start	2685	End	3171
GI	none	Score	175
Exons	2685..3170, 2716..2976, 2742..3170, 2998..3171		



Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o5.tw	Method	TBLASTX:Wheat
Start	3909	End	4301
GI	none	Score	79
Exons	3909..4166, 4021..4182, 4149..4247, 4150..4230, 4254..4301		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60688	Strand	-
Start	1	End	4449
Name	OJ000250_09.0209.C26.o3.tm	Method	TBLASTX:Maize
Start	4011	End	4296
GI	none	Score	85
Exons	4011..4259, 4012..4296		

Seq. No.	29400	Seq. ID	OJ000250_09.0209.C26
Gene No.	60689	Strand	-
Start	12307	End	13375
Name	OJ000250_09.0209.C26.o1.tc	Method	TBLASTX:Cress
Start	12307	End	13375
GI	none	Score	90
Exons	12307..12438, 12956..13153, 13151..13375		

Seq. No.	29401	Seq. ID	OJ000250_09.0209.C27
Gene No.	60690	Strand	+
Start	430	End	2700
Name	OJ000250_09.0209.C27.o1.np	Method	AAT/NAP
Start	430	End	2700
GI	5852176	Score	171
Exons	430..616, 677..800, 2633..2700		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	29401	Seq. ID	OJ000250_09.0209.C27
Gene No.	60691	Strand	-
Start	5871	End	6068
Name	OJ000250_09.0209.C27.o1.tc	Method	TBLASTX:Cress
Start	443	End	637
GI	none	Score	196
Exons	443..637		

Seq. No.	29401	Seq. ID	OJ000250_09.0209.C27
Gene No.	60691	Strand	-
Start	5871	End	6068
Name	OJ000250_09.0209.C27.o1.tw	Method	TBLASTX:Wheat
Start	446	End	754
GI	none	Score	302
Exons	446..754, 448..750, 479..751		

Seq. No.	29401	Seq. ID	OJ000250_09.0209.C27
Gene No.	60691	Strand	-
Start	5871	End	6068
Name	OJ000250_09.0209.C27.o1.tm	Method	TBLASTX:Maize
Start	546	End	818
GI	none	Score	148
Exons	546..653, 547..660, 548..655, 557..691, 582..656, 670..786,		

671..790, 714..818, 720..797

Seq. No.	29401	Seq. ID	OJ000250_09.0209.C27
Gene No.	60691	Strand	-
Start	5871	End	6068
Name	OJ000250_09.0209.C27.o3.gs	Method	GENSCAN
Start	5871	End	6068
GI	none	Score	.58
Exons	5871..6068		

Seq. No.	29402	Seq. ID	OJ000250_09.0209.C28
Gene No.	60692	Strand	-
Start	2590	End	3087
Name	OJ000250_09.0209.C28.o1.gs	Method	GENSCAN
Start	2590	End	3087
GI	none	Score	.9
Exons	2590..3087		

Seq. No.	29403	Seq. ID	OJ000250_09.0209.C29
Gene No.	60693	Strand	+
Start	130	End	780
Name	OJ000250_09.0209.C29.o1.gs	Method	GENSCAN
Start	130	End	780
GI	none	Score	.93
Exons	130..780		

Seq. No.	29404	Seq. ID	OJ000250_09.0209.C30
Gene No.	60694	Strand	+
Start	552	End	731
Name	OJ000250_09.0209.C30.o1.np	Method	AAT/NAP
Start	552	End	731
GI	4895172	Score	85
Exons	552..731		
GI Descrip.	(AC007662) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29405	Seq. ID	OJ000250_09.0209.C31
Gene No.	60695	Strand	+
Start	17	End	268
Name	OJ000250_09.0209.C31.o1.gs	Method	GENSCAN
Start	17	End	268
GI	none	Score	.98
Exons	17..93, 190..268		

Seq. No.	29406	Seq. ID	OJ000250_09.0209.C33
Gene No.	60696	Strand	+
Start	1	End	410
Name	OJ000250_09.0209.C33.o1.np	Method	AAT/NAP
Start	1	End	410
GI	5042463	Score	85
Exons	1..65, 159..410		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	29407	Seq. ID	OJ000250_09.0209.C34
Gene No.	60697	Strand	+
Start	292	End	368
Name	OJ000250_09.0209.C34.o1.gs	Method	GENSCAN
Start	292	End	368

GI none  
Exons 292..368

Score .79

Seq. No. 29408  
Gene No. 60698  
Start 40  
Name OJ000250\_09.0209.C36.o1.gs  
Start 40  
GI none  
Exons 40..231

Seq. ID OJ000250\_09.0209.C36  
Strand -  
End 231  
Method GENSCAN  
End 231  
Score 1

Seq. No. 29409  
Gene No. 60699  
Start 1  
Name OJ000250\_09.0209.C39.o1.np  
Start 1  
GI 3549626  
Exons 1..705  
GI Descrip. (AJ009696) wall-associated kinase 1 [Arabidopsis thaliana]

Seq. ID OJ000250\_09.0209.C39  
Strand +  
End 705  
Method AAT/NAP  
End 705  
Score 268

Seq. No. 29409  
Gene No. 60699  
Start 1  
Name OJ000250\_09.0209.C39.o1.tc  
Start 187  
GI none  
Exons 187..249, 265..324, 349..483, 596..688

Seq. ID OJ000250\_09.0209.C39  
Strand +  
End 705  
Method TBLASTX:Cress  
End 688  
Score 45

Seq. No. 29409  
Gene No. 60699  
Start 1  
Name OJ000250\_09.0209.C39.o1.tm  
Start 204  
GI none  
Exons 204..260, 205..264, 252..296, 338..685, 342..686

Seq. ID OJ000250\_09.0209.C39  
Strand +  
End 705  
Method TBLASTX:Maize  
End 686  
Score 66

Seq. No. 29409  
Gene No. 60699  
Start 1  
Name OJ000250\_09.0209.C39.o1.gs  
Start 218  
GI none  
Exons 218..573

Seq. ID OJ000250\_09.0209.C39  
Strand +  
End 705  
Method GENSCAN  
End 573  
Score .75

Seq. No. 29409  
Gene No. 60699  
Start 1  
Name OJ000250\_09.0209.C39.o1.ts  
Start 262  
GI none  
Exons 262..489, 263..502, 505..585, 506..586, 596..688, 610..681

Seq. ID OJ000250\_09.0209.C39  
Strand +  
End 705  
Method TBLASTX:Soybean  
End 688  
Score 194

Seq. No. 29410  
Gene No. 60700  
Start 48

Seq. ID OJ000250\_09.0209.C40  
Strand +  
End 240

Name OJ000250\_09.0209.C40.o1.gs  
 Start 48  
 GI none  
 Exons 48..50, 160..240

Method GENSCAN  
 End 240  
 Score .94

Seq. No. 29411  
 Gene No. 60701  
 Start 124  
 Name OJ000250\_09.0209.C43.o1.gs  
 Start 124  
 GI none  
 Exons 124..282

Seq. ID OJ000250\_09.0209.C43  
 Strand +  
 End 282  
 Method GENSCAN  
 End 282  
 Score .66

Seq. No. 29412  
 Gene No. 60702  
 Start 9  
 Name OJ000250\_09.0209.C44.o1.gs  
 Start 9  
 GI none  
 Exons 9..107

Seq. ID OJ000250\_09.0209.C44  
 Strand +  
 End 107  
 Method GENSCAN  
 End 107  
 Score .95

Seq. No. 29413  
 Gene No. 60703  
 Start 1  
 Name OJ000250\_09.0209.C46.o1.np  
 Start 1  
 GI 1345132  
 Exons 1..20, 240..616

Seq. ID OJ000250\_09.0209.C46  
 Strand -  
 End 616  
 Method AAT/NAP  
 End 616  
 Score 188

GI Descrip. (U47029) ERECTA [Arabidopsis thaliana] gi|1389566|dbj|BAA11869|  
 (D83257) receptor protein kinase [Arabidopsis thaliana]  
 gi|3075386|gb|AAC14518.1| (AC004484) putative receptor-like  
 protein kinase, ERECTA [Arabidopsis thaliana]

Seq. No. 29413  
 Gene No. 60703  
 Start 1  
 Name OJ000250\_09.0209.C46.o1.gs  
 Start 22  
 GI none  
 Exons 22..549

Seq. ID OJ000250\_09.0209.C46  
 Strand -  
 End 616  
 Method GENSCAN  
 End 549  
 Score .75

Seq. No. 29413  
 Gene No. 60703  
 Start 1  
 Name OJ000250\_09.0209.C46.o1.tm  
 Start 298  
 GI none  
 Exons 298..486, 298..567, 314..562

Seq. ID OJ000250\_09.0209.C46  
 Strand -  
 End 616  
 Method TBLASTX:Maize  
 End 567  
 Score 76

Seq. No. 29413  
 Gene No. 60703  
 Start 1  
 Name OJ000250\_09.0209.C46.o1.tc  
 Start 427  
 GI none  
 Exons 427..615, 428..550, 526..606

Seq. ID OJ000250\_09.0209.C46  
 Strand -  
 End 616  
 Method TBLASTX:Cress  
 End 615  
 Score 65

29254

Seq. No.	29413	Seq. ID	OJ000250_09.0209.C46
Gene No.	60703	Strand	-
Start	1	End	616
Name	OJ000250_09.0209.C46.o1.ts	Method	TBLASTX:Soybean
Start	427	End	615
GI	none	Score	92
Exons	427..615, 428..604, 442..606		

Seq. No.	29414	Seq. ID	OJ000250_09.0209.C47
Gene No.	60704	Strand	+
Start	384	End	459
Name	OJ000250_09.0209.C47.o1.gs	Method	GENSCAN
Start	384	End	459
GI	none	Score	.44
Exons	384..459		

Seq. No.	29415	Seq. ID	OJ000250_09.0209.C48
Gene No.	60705	Strand	-
Start	1	End	197
Name	OJ000250_09.0209.C48.o1.np	Method	AAT/NAP
Start	1	End	197
GI	5441880	Score	311
Exons	1..197		

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	29416	Seq. ID	OJ000120_02.0218.C2
Gene No.	60706	Strand	+
Start	507	End	5585
Name	OJ000120_02.0218.C2.o1.np	Method	AAT/NAP
Start	507	End	5585
GI	6069667	Score	671
Exons	507..760, 1117..1226, 2111..2291, 2351..2379, 5404..5585		
GI Descrip.	(AP000616) similar to UMP/CMP kinase (AF000147) [Oryza sativa]		

Seq. No.	29416	Seq. ID	OJ000120_02.0218.C2
Gene No.	60706	Strand	+
Start	507	End	5585
Name	OJ000120_02.0218.C2.o1.gs	Method	GENSCAN
Start	1115	End	2429
GI	none	Score	.85
Exons	1115..1226, 2111..2291, 2308..2429		

Seq. No.	29416	Seq. ID	OJ000120_02.0218.C2
Gene No.	60706	Strand	+
Start	507	End	5585
Name	OJ000120_02.0218.C2.o1.gp	Method	AAT/GAP
Start	5115	End	5287
GI	LIB3433-026-P1-K1-C1	Score	258
Exons	5115..5287		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29416	Seq. ID	OJ000120_02.0218.C2
Gene No.	60707	Strand	-
Start	3159	End	3528

Name	OJ000120_02.0218.C2.o2.gs	Method	GENSCAN
Start	3159	End	3528
GI	none	Score	.96
Exons	3159..3386, 3406..3528		

  

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60708	Strand	+
Start	6259	End	6717
Name	OJ000120_02.0218.C3.o3.gp	Method	AAT/GAP
Start	6259	End	6717
GI	LIB3431-028-P1-N1-A10	Score	558
Exons	6259..6330, 6358..6717		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60709	Strand	-
Start	178	End	3918
Name	OJ000120_02.0218.C3.o1.gs	Method	GENSCAN
Start	178	End	3903
GI	none	Score	.72
Exons	178..366, 446..544, 647..719, 807..917, 1014..1187, 1299..1698, 1776..1956, 1974..2119, 2245..2386, 2482..2601, 2647..3164, 3243..3903		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60709	Strand	-
Start	178	End	3918
Name	OJ000120_02.0218.C3.o1.np	Method	AAT/NAP
Start	199	End	3918
GI	4680204	Score	985
Exons	199..336, 695..917, 1014..1187, 1299..2386, 2482..3918		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60709	Strand	-
Start	178	End	3918
Name	OJ000120_02.0218.C3.o1.gp	Method	AAT/GAP
Start	1399	End	1864
GI	uC-osflcyp176f10b1	Score	858
Exons	1399..1864		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o6.tw	Method	TBLASTX:Wheat
Start	2174	End	2871
GI	none	Score	69
Exons	2174..2395, 2476..2550, 2791..2871		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o5.tw	Method	TBLASTX:Wheat

Start	2872	End	3275
GI	none	Score	42
Exons	2872..2967, 2872..3042, 3005..3172, 3037..3273, 3124..3273, 3135..3275, 3165..3275		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.gs	Method	GENSCAN
Start	4994	End	6622
GI	none	Score	.74
Exons	4994..5284, 5361..5459, 6374..6622		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.gp	Method	AAT/GAP
Start	5619	End	9707
GI	342_1.R1084	Score	3458
Exons	5619..6063, 8260..9707		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o1.tw	Method	TBLASTX:Wheat
Start	6398	End	9783
GI	none	Score	54
Exons	6398..6490, 6399..6464, 6479..6559, 6507..6560, 6566..6601, 8592..8684, 8685..8753, 8766..8906, 8767..8907, 8854..8949, 8886..8945, 8952..8993, 8952..8996, 8991..9779, 9006..9323, 9007..9780, 9184..9783, 9443..9781		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o3.gs	Method	GENSCAN
Start	7119	End	7490
GI	none	Score	.94
Exons	7119..7490		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o4.gp	Method	AAT/GAP
Start	7824	End	11636
GI	342_1.R1084	Score	6262
Exons	7824..10071, 10110..11636		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o4.gs	Method	GENSCAN
Start	8517	End	11640

GI	none	Score	.62
Exons	8517..9610, 9829..10120, 10186..10692, 10828..11640		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.np	Method	AAT/NAP
Start	8538	End	11640
GI	4680203	Score	2911
Exons	8538..9737, 9914..10071, 10110..11640		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o1.tc	Method	TBLASTX:Cress
Start	9174	End	9625
GI	none	Score	193
Exons	9174..9611, 9174..9617, 9178..9621, 9184..9621, 9443..9625		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.tm	Method	TBLASTX:Maize
Start	9552	End	9780
GI	none	Score	107
Exons	9552..9779, 9580..9780		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o4.tw	Method	TBLASTX:Wheat
Start	9785	End	10117
GI	none	Score	148
Exons	9785..9997, 9815..9985, 9819..9998, 9972..10106, 9995..10117		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.ts	Method	TBLASTX:Soybean
Start	10144	End	10374
GI	none	Score	204
Exons	10144..10374		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o1.tm	Method	TBLASTX:Maize
Start	10216	End	10674
GI	none	Score	105
Exons	10216..10410, 10420..10674, 10420..10662		

Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.tw	Method	TBLASTX:Wheat
Start	10250	End	10719



GI	none	Score	165
Exons	10250..10456, 10252..10458, 10252..10458, 10442..10552, 10457..10549, 10459..10554, 10459..10557, 10540..10662, 10561..10665, 10565..10675, 10645..10701, 10666..10719, 10667..10711		
Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o2.tc	Method	TBLASTX:Cress
Start	10507	End	10855
GI	none	Score	90
Exons	10507..10851, 10511..10663, 10703..10855		
Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o1.ts	Method	TBLASTX:Soybean
Start	10588	End	11017
GI	none	Score	121
Exons	10588..10884, 10606..10830, 10934..11017, 10942..11016		
Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o3.tw	Method	TBLASTX:Wheat
Start	10938	End	11289
GI	none	Score	178
Exons	10938..11189, 10948..11199, 10949..11191, 11182..11289		
Seq. No.	29417	Seq. ID	OJ000120_02.0218.C3
Gene No.	60710	Strand	-
Start	4994	End	11689
Name	OJ000120_02.0218.C3.o6.gp	Method	AAT/GAP
Start	11185	End	11689
GI	2310235	Score	239
Exons	11185..11213, 11501..11689		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60711	Strand	+
Start	16974	End	17735
Name	OJ000120_02.0218.C4.o6.gs	Method	GENSCAN
Start	16974	End	17735
GI	none	Score	.47
Exons	16974..17103, 17602..17735		
Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60712	Strand	-
Start	457	End	2053
Name	OJ000120_02.0218.C4.o1.np	Method	AAT/NAP
Start	414	End	2053
GI	5921932	Score	1276
Exons	414..1037, 1119..2053		
GI Descrip.	CYTOCHROME P450 84A1 (FERULATE-5-HYDROXYLASE) (F5H) gi 1488255 (U38416) ferulate-5-hydroxylase [Arabidopsis thaliana]		

gi|2961381|emb|CAA18128| (AL022141) ferulate-5-hydroxylase  
(FAH1) [Arabidopsis thaliana] gi|3925365 (AF068574)  
ferulate-5-hydroxylase [Arabidopsis thaliana]

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60712	Strand	-
Start	457	End	2053
Name	OJ000120_02.0218.C4.o1.gs	Method	GENSCAN
Start	457	End	2033
GI	none	Score	.79
Exons	457..1037, 1115..2033		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-
Start	19850	End	20317
Name	OJ000120_02.0218.C4.o1.ts	Method	TBLASTX:Soybean
Start	408	End	1904
GI	none	Score	151
Exons	408..656, 411..656, 538..657, 714..1037, 723..854, 936..1067, 1119..1157, 1260..1883, 1261..1875, 1812..1904		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-
Start	19850	End	20317
Name	OJ000120_02.0218.C4.o1.tm	Method	TBLASTX:Maize
Start	409	End	1157
GI	none	Score	37
Exons	409..447, 417..671, 450..671, 538..696, 673..708, 675..707, 714..1037, 726..857, 1119..1157		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-
Start	19850	End	20317
Name	OJ000120_02.0218.C4.o1.tc	Method	TBLASTX:Cress
Start	414	End	1877
GI	none	Score	74
Exons	414..656, 426..545, 538..657, 672..710, 714..1037, 1119..1157, 1215..1262, 1260..1526, 1279..1875, 1548..1877		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-
Start	19850	End	20317
Name	OJ000120_02.0218.C4.o1.tw	Method	TBLASTX:Wheat
Start	426	End	675
GI	none	Score	108
Exons	426..671, 438..656, 550..675		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-
Start	19850	End	20317
Name	OJ000120_02.0218.C4.o2.tm	Method	TBLASTX:Maize
Start	1546	End	1883
GI	none	Score	234
Exons	1546..1875, 1548..1883		

Seq. No.	29418	Seq. ID	OJ000120_02.0218.C4
Gene No.	60713	Strand	-

Start 19850  
 Name OJ000120\_02.0218.C4.o1.gp  
 Start 19612  
 GI none  
 Exons 19612..19986

End 20317  
 Method AAT/GAP  
 End 19986  
 Score 694

Seq. No. 29418  
 Gene No. 60713  
 Start 19850  
 Name OJ000120\_02.0218.C4.o7.gs  
 Start 19850  
 GI none  
 Exons 19850..20317

Seq. ID OJ000120\_02.0218.C4  
 Strand -  
 End 20317  
 Method GENSCAN  
 End 20317  
 Score .45

Seq. No. 29419  
 Gene No. 60714  
 Start 1  
 Name OJ000120\_02.0218.C5.o1.np  
 Start 1  
 GI 4680203  
 Exons 1..78, 154..449, 483..1394, 1554..1779, 2056..3026  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 3026  
 Method AAT/NAP  
 End 3026  
 Score 1523

Seq. No. 29419  
 Gene No. 60715  
 Start 4453  
 Name OJ000120\_02.0218.C5.o3.gs  
 Start 4453  
 GI none  
 Exons 4453..4677, 4756..4998, 5272..6330

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 6330  
 Method GENSCAN  
 End 6330  
 Score .77

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o3.tw  
 Start 128  
 GI none  
 Exons 128..427, 241..399, 490..597, 497..598

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Wheat  
 End 598  
 Score 159

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o1.ts  
 Start 296  
 GI none  
 Exons 296..418, 491..757, 517..756

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Soybean  
 End 757  
 Score 90

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o2.tm  
 Start 353  
 GI none  
 Exons 353..457, 572..616, 602..883, 634..813

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Maize  
 End 883  
 Score 78

Seq. No. 29419  
 Gene No. 60716

Seq. ID OJ000120\_02.0218.C5  
 Strand +

Start 6832  
 Name OJ000120\_02.0218.C5.o1.tc  
 Start 497  
 GI none  
 Exons 497..838, 499..642, 682..831

End 12770  
 Method TBLASTX:Cress  
 End 838  
 Score 292

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o2.tw  
 Start 601  
 GI none  
 Exons 601..870, 611..925, 611..910

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Wheat  
 End 925  
 Score 317

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o1.tm  
 Start 1644  
 GI none  
 Exons 1644..1712, 1645..1713, 1713..2027, 1714..2028, 1720..2028

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Maize  
 End 2028  
 Score 60

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o1.tw  
 Start 1669  
 GI none  
 Exons 1669..2289, 1722..2222, 2433..2591, 2444..2575, 2579..2683, 2580..2684, 2700..2801, 2808..2870

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Wheat  
 End 2870  
 Score 529

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o2.tc  
 Start 1960  
 GI none  
 Exons 1960..2289, 1968..2222

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Cress  
 End 2289  
 Score 273

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o3.tm  
 Start 2289  
 GI none  
 Exons 2289..2447, 2291..2446, 2462..2566, 2463..2567

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method TBLASTX:Maize  
 End 2567  
 Score 130

Seq. No. 29419  
 Gene No. 60716  
 Start 6832  
 Name OJ000120\_02.0218.C5.o4.gs  
 Start 6832  
 GI none  
 Exons 6832..6890, 6974..7231, 7309..7419, 7511..7589, 7689..7801, 9761..9890, 12691..12770

Seq. ID OJ000120\_02.0218.C5  
 Strand +  
 End 12770  
 Method GENSCAN  
 End 12770  
 Score .53

Seq. No. 29420 Seq. ID OJ000120\_02.0218.C6

Gene No.	60717	Strand	+
Start	42	End	3825
Name	OJ000120_02.0218.C6.o1.gs	Method	GENSCAN
Start	42	End	3825
GI	none	Score	.55
Exons	42..98, 666..703, 3315..3569, 3639..3667, 3773..3825		

Seq. No.	29420	Seq. ID	OJ000120_02.0218.C6
Gene No.	60718	Strand	+
Start	4334	End	5001
Name	OJ000120_02.0218.C6.o1.gp	Method	AAT/GAP
Start	4334	End	5001
GI	3768663	Score	1279
Exons	4334..5001		

Seq. No.	29420	Seq. ID	OJ000120_02.0218.C6
Gene No.	60719	Strand	-
Start	5307	End	5588
Name	OJ000120_02.0218.C6.o2.gp	Method	AAT/GAP
Start	5307	End	5588
GI	701547	Score	556
Exons	5307..5588		

Seq. No.	29420	Seq. ID	OJ000120_02.0218.C6
Gene No.	60720	Strand	-
Start	5692	End	7453
Name	OJ000120_02.0218.C6.o2.gs	Method	GENSCAN
Start	5692	End	7453
GI	none	Score	.49
Exons	5692..5810, 7132..7453		

Seq. No.	29421	Seq. ID	OJ000120_02.0218.C7
Gene No.	60721	Strand	+
Start	1596	End	1843
Name	OJ000120_02.0218.C7.o1.gs	Method	GENSCAN
Start	1596	End	1843
GI	none	Score	.88
Exons	1596..1843		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60722	Strand	+
Start	3824	End	4330
Name	OJ000120_02.0218.C8.o3.gs	Method	GENSCAN
Start	3824	End	4330
GI	none	Score	.63
Exons	3824..4330		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60723	Strand	+
Start	8921	End	9448
Name	OJ000120_02.0218.C8.o5.gs	Method	GENSCAN
Start	8921	End	9448
GI	none	Score	.97
Exons	8921..9448		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60723	Strand	+

Start	8921	End	9448
Name	OJ000120_02.0218.C8.o1.np	Method	AAT/NAP
Start	8930	End	9412
GI	3290004	Score	455
Exons	8930..9412		
GI Descrip.	(U82200) pathogenesis related protein-1 [Zea mays]		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60724	Strand	-
Start	3068	End	3715
Name	OJ000120_02.0218.C8.o2.gs	Method	GENSCAN
Start	3068	End	3715
GI	none	Score	.56
Exons	3068..3140, 3260..3285, 3505..3562, 3678..3715		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60725	Strand	-
Start	5367	End	7944
Name	OJ000120_02.0218.C8.o4.gs	Method	GENSCAN
Start	5367	End	7944
GI	none	Score	.69
Exons	5367..5693, 6408..6541, 6651..6692, 7590..7944		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o1.tw	Method	TBLASTX:Wheat
Start	277	End	9412
GI	none	Score	181
Exons	277..369, 8966..9178, 8992..9093, 8996..9166, 9179..9343, 9208..9345, 9335..9412		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o1.tc	Method	TBLASTX:Cress
Start	8972	End	9412
GI	none	Score	189
Exons	8972..9178, 9004..9162, 9194..9262, 9277..9357, 9278..9412		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	8987	End	9412
GI	none	Score	113
Exons	8987..9103, 8992..9093, 9110..9343, 9121..9345, 9335..9412		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o1.ts	Method	TBLASTX:Soybean
Start	8992	End	9412
GI	none	Score	403
Exons	8992..9099, 8993..9355, 9121..9354, 9344..9412		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
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Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o2.np	Method	AAT/NAP
Start	14070	End	16914
GI	4006833	Score	417
Exons	14070..14104, 15800..16914		
GI Descrip.	(AC005970) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o3.tm	Method	TBLASTX:Maize
Start	15760	End	16125
GI	none	Score	46
Exons	15760..15867, 15761..15877, 15892..15978, 15937..15993, 15985..16125, 16016..16075		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o3.tw	Method	TBLASTX:Wheat
Start	15823	End	16126
GI	none	Score	73
Exons	15823..15993, 15859..15993, 15988..16104, 15995..16126		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60726	Strand	-
Start	14070	End	16914
Name	OJ000120_02.0218.C8.o2.tm	Method	TBLASTX:Maize
Start	16126	End	16794
GI	none	Score	70
Exons	16126..16275, 16130..16252, 16285..16569, 16621..16794		

Seq. No.	29422	Seq. ID	OJ000120_02.0218.C8
Gene No.	60727	Strand	-
Start	16994	End	17401
Name	OJ000120_02.0218.C8.o2.tw	Method	TBLASTX:Wheat
Start	16994	End	17401
GI	none	Score	153
Exons	16994..17386, 17076..17390, 17108..17401		

Seq. No.	29423	Seq. ID	OJ000120_02.0218.C9
Gene No.	60728	Strand	+
Start	1662	End	2754
Name	OJ000120_02.0218.C9.o1.np	Method	AAT/NAP
Start	1662	End	2754
GI	4680186	Score	372
Exons	1662..1719, 2554..2754		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29423	Seq. ID	OJ000120_02.0218.C9
Gene No.	60729	Strand	-
Start	2306	End	2687
Name	OJ000120_02.0218.C9.o1.gp	Method	AAT/GAP
Start	2306	End	2687
GI	uC-osflcyp033a04b1	Score	679

Exons 2306..2687  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	29423	Seq. ID	OJ000120_02.0218.C9
Gene No.	60730	Strand	-
Start	3118	End	3602
Name	OJ000120_02.0218.C9.o2.gs	Method	GENSCAN
Start	3118	End	3602
GI	none	Score	.64
Exons	3118..3203, 3530..3602		

Seq. No.	29424	Seq. ID	OJ000120_02.0218.C10
Gene No.	60731	Strand	+
Start	5057	End	5600
Name	OJ000120_02.0218.C10.o1.np	Method	AAT/NAP
Start	5057	End	5600
GI	6539585	Score	136
Exons	5057..5225, 5525..5600		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	29424	Seq. ID	OJ000120_02.0218.C10
Gene No.	60732	Strand	+
Start	6700	End	9064
Name	OJ000120_02.0218.C10.o2.np	Method	AAT/NAP
Start	6700	End	9064
GI	6815052	Score	1201
Exons	6700..6812, 7575..7728, 7764..8480, 8562..8633, 8936..9064		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	29424	Seq. ID	OJ000120_02.0218.C10
Gene No.	60733	Strand	-
Start	644	End	3042
Name	OJ000120_02.0218.C10.o1.gs	Method	GENSCAN
Start	644	End	3042
GI	none	Score	.58
Exons	644..1578, 3039..3042		

Seq. No.	29424	Seq. ID	OJ000120_02.0218.C10
Gene No.	60734	Strand	
Start	7218	End	7520
Name	OJ000120_02.0218.C10.o1.tw	Method	TBLASTX:Wheat
Start	7218	End	7520
GI	none	Score	180
Exons	7218..7520		

Seq. No.	29425	Seq. ID	OJ000120_02.0218.C14
Gene No.	60735	Strand	+
Start	1	End	186
Name	OJ000120_02.0218.C14.o1.np	Method	AAT/NAP
Start	1	End	186
GI	1074100	Score	153
Exons	1..186		
GI Descrip.	formylglycineamide ribonucleotide synthetase (purL) homolog - Haemophilus influenzae (strain Rd KW20) gi 1573760 (U32759) phosphoribosylformylglycinamide synthase (purL) [Haemophilus influenzae Rd]		



Seq. No.	29425	Seq. ID	OJ000120_02.0218.C14
Gene No.	60735	Strand	+
Start	1	End	186
Name	OJ000120_02.0218.C14.o1.gs	Method	GENSCAN
Start	52	End	165
GI	none	Score	.92
Exons	52..165		
Seq. No.	29426	Seq. ID	OJ000120_02.0218.C16
Gene No.	60736	Strand	+
Start	9	End	241
Name	OJ000120_02.0218.C16.o1.gs	Method	GENSCAN
Start	9	End	241
GI	none	Score	.92
Exons	9..80, 179..241		
Seq. No.	29426	Seq. ID	OJ000120_02.0218.C16
Gene No.	60737	Strand	-
Start	143	End	316
Name	OJ000120_02.0218.C16.o1.np	Method	AAT/NAP
Start	143	End	316
GI	6685891	Score	104
Exons	143..316		
GI Descrip.	RIBONUCLEASE H (RNASE H) gi 3089615 (AF086791) ribonuclease H [Zymomonas mobilis]		
Seq. No.	29427	Seq. ID	OJ000120_02.0218.C18
Gene No.	60738	Strand	-
Start	1	End	627
Name	OJ000120_02.0218.C18.o1.np	Method	AAT/NAP
Start	1	End	627
GI	6742729	Score	475
Exons	1..536, 584..627		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		
Seq. No.	29427	Seq. ID	OJ000120_02.0218.C18
Gene No.	60738	Strand	-
Start	1	End	627
Name	OJ000120_02.0218.C18.o1.tc	Method	TBLASTX:Cress
Start	12	End	388
GI	none	Score	156
Exons	12..92, 109..366, 110..388		
Seq. No.	29427	Seq. ID	OJ000120_02.0218.C18
Gene No.	60738	Strand	-
Start	1	End	627
Name	OJ000120_02.0218.C18.o1.tw	Method	TBLASTX:Wheat
Start	12	End	538
GI	none	Score	256
Exons	12..92, 109..528, 110..535, 119..538, 432..536		
Seq. No.	29428	Seq. ID	OJ000250_05.0209.C1
Gene No.	60739	Strand	+
Start	261	End	743
Name	OJ000250_05.0209.C1.o1.gs	Method	GENSCAN
Start	261	End	743

GI	none	Score	.99
Exons	261..743		
Seq. No.	29428	Seq. ID	OJ000250_05.0209.C1
Gene No.	60740	Strand	-
Start	1544	End	2795
Name	OJ000250_05.0209.C1.o2.gs	Method	GENSCAN
Start	1544	End	2795
GI	none	Score	.84
Exons	1544..1568, 1616..1755, 2610..2795		
Seq. No.	29429	Seq. ID	OJ000250_05.0209.C2
Gene No.	60741	Strand	-
Start	1	End	6198
Name	OJ000250_05.0209.C2.o1.np	Method	AAT/NAP
Start	1	End	685
GI	6498436	Score	93
Exons	1..87, 462..685		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	29429	Seq. ID	OJ000250_05.0209.C2
Gene No.	60741	Strand	-
Start	1	End	6198
Name	OJ000250_05.0209.C2.o2.np	Method	AAT/NAP
Start	1	End	2525
GI	6705984	Score	163
Exons	1..75, 960..1425, 2337..2525		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	29429	Seq. ID	OJ000250_05.0209.C2
Gene No.	60741	Strand	-
Start	1	End	6198
Name	OJ000250_05.0209.C2.o1.gs	Method	GENSCAN
Start	755	End	6198
GI	none	Score	.51
Exons	755..962, 1108..1137, 2526..2618, 2922..3017, 4421..4460, 6191..6198		
Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60742	Strand	+
Start	378	End	1105
Name	OJ000250_05.0209.C3.o1.gs	Method	GENSCAN
Start	378	End	1105
GI	none	Score	.5
Exons	378..576, 727..864, 1050..1105		
Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60743	Strand	+
Start	26968	End	29617
Name	OJ000250_05.0209.C3.o1.gp	Method	AAT/GAP
Start	26968	End	29617
GI	8199 1.R1084	Score	1298
Exons	26968..27091, 28448..28658, 28746..28954, 29299..29432, 29513..29617		
GI Descrip.	'1514643/emb CAA94437  2.0e-58 (Z70524) PDR5-like ABC transporter [Spirodela polyrrhiza]'		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60744	Strand	-
Start	1911	End	25921
Name	OJ000250_05.0209.C3.o2.gs	Method	GENSCAN
Start	1911	End	25921
GI	none	Score	.54
Exons	1911..2168, 2715..2886, 2999..3226, 3764..3897, 4199..4489, 4588..4725, 5040..5182, 5493..5649, 5723..5826, 6780..6900, 6996..7338, 7379..7455, 7961..8037, 8118..8303, 9279..9318, 9958..10078, 15913..16244, 18669..18830, 20201..20417, 20611..20961, 25752..25921		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60744	Strand	-
Start	1911	End	25921
Name	OJ000250_05.0209.C3.o1.np	Method	AAT/NAP
Start	1914	End	11792
GI	1514643	Score	3698
Exons	1914..2168, 2313..2567, 2715..2886, 2999..3226, 3764..3897, 3981..4064, 4199..4489, 4588..4920, 5040..5149, 5276..5392, 5493..5649, 5723..5826, 5941..6101, 6187..6503, 6619..6900, 6996..7297, 7365..7506, 7961..8037, 8118..8277, 8407..8491, 8567..8655, 9958..10095, 11757..11792		

GI Descrip. (270524) PDR5-like ABC transporter [Spirodela polyrrhiza]

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o1.tm	Method	TBLASTX:Maize
Start	1903	End	28581
GI	none	Score	197
Exons	1903..2175, 1911..2132, 2316..2552, 2320..2493, 2336..2569, 2337..2570, 2685..2735, 2691..2735, 2712..2858, 2713..2856, 27560..27598, 27561..27614, 27631..27651, 27650..27805, 27668..27817, 27675..27812, 27735..27875, 27912..28166, 27916..28164, 27932..28186, 27939..28187, 28435..28581, 28436..28579, 28438..28581		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o1.ts	Method	TBLASTX:Soybean
Start	1911	End	29783
GI	none	Score	79
Exons	1911..2051, 1912..2052, 2070..2132, 2071..2169, 2086..2166, 2322..2552, 2328..2426, 2329..2493, 2466..2570, 2664..2894, 2713..2874, 2985..3131, 2998..3231, 3005..3229, 3763..3930, 3764..3889, 3976..4065, 3981..4067, 4177..4215, 4196..4486, 4197..4493, 4206..4490, 4585..4917, 4589..4915, 4601..4921, 4668..4922, 5031..5132, 5497..5625, 5528..5638, 5708..5827, 5730..5825, 5942..6103, 6165..6227, 7098..7181, 7191..7289, 27554..27598, 27555..27695, 27659..27700, 27720..27815, 27722..27817, 27737..27805, 27851..27868, 27912..28166, 27913..28167, 28435..28623, 28436..28597, 28465..28632, 28718..28957, 28743..28919, 29296..29439, 29297..29422, 29511..29618, 29511..29597, 29673..29783, 29674..29781		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o2.tc	Method	TBLASTX:Cress
Start	2043	End	29783
GI	none	Score	94
Exons	2043..2165, 2070..2132, 2077..2169, 2080..2169, 2316..2552, 2320..2493, 2712..2891, 2725..2874, 2998..3231, 2999..3223, 3763..3918, 3981..4067, 3982..4056, 4188..4289, 4196..4288, 5744..5824, 7077..7118, 7098..7181, 7191..7265, 27561..27674, 27728..27817, 27729..27815, 27912..28166, 27913..28164, 27963..28181, 28435..28611, 28438..28560, 28448..28597, 28724..28957, 29296..29439, 29511..29597, 29514..29588, 29665..29781, 29670..29783, 29670..29783		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o1.tw	Method	TBLASTX:Wheat
Start	2082	End	28166
GI	none	Score	102
Exons	2082..2129, 2083..2166, 2086..2166, 2322..2549, 2395..2493, 2469..2549, 27731..27814, 27732..27815, 27738..27815, 27912..28166, 27991..28122		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o4.tw	Method	TBLASTX:Wheat
Start	2671	End	28623
GI	none	Score	187
Exons	2671..2877, 2712..2894, 2714..2890, 28405..28623, 28436..28600		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o3.tm	Method	TBLASTX:Maize
Start	2993	End	29783
GI	none	Score	217
Exons	2993..3226, 3001..3231, 3001..3231, 3763..3927, 3770..3904, 3981..4067, 3982..4065, 4196..4351, 4197..4352, 4201..4353, 7098..7181, 7191..7268, 28718..28957, 28743..28919, 29273..29416, 29296..29439, 29299..29418, 29303..29422, 29511..29618, 29511..29597, 29673..29783, 29674..29781		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o2.tw	Method	TBLASTX:Wheat
Start	2999	End	29783
GI	none	Score	119
Exons	2999..3229, 3007..3231, 3763..3930, 3818..3904, 3976..4053, 3981..4067, 4196..4327, 4199..4327, 4200..4328, 7080..7118, 7098..7181, 28733..28957, 28743..28919, 29296..29439, 29297..29428, 29511..29597, 29670..29783, 29676..29783		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
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Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o1.tc	Method	TBLASTX:Cress
Start	4289	End	5117
GI	none	Score	163
Exons	4289..4486, 4290..4433, 4606..4917, 4610..4906, 4636..4908, 5043..5117		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o2.tm	Method	TBLASTX:Maize
Start	4383	End	4917
GI	none	Score	80
Exons	4383..4493, 4385..4486, 4585..4917, 4589..4915		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o3.tc	Method	TBLASTX:Cress
Start	5497	End	6434
GI	none	Score	82
Exons	5497..5625, 5948..6118, 6174..6434, 6175..6378		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o3.tw	Method	TBLASTX:Wheat
Start	5792	End	7946
GI	none	Score	143
Exons	5792..5824, 5942..6103, 6160..6348, 6170..6331, 6174..6356, 7884..7946		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o3.ts	Method	TBLASTX:Soybean
Start	6231	End	6390
GI	none	Score	104
Exons	6231..6389, 6232..6390		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o2.ts	Method	TBLASTX:Soybean
Start	6616	End	7097
GI	none	Score	84
Exons	6616..6900, 6629..6901, 6736..6903, 6988..7092, 6990..7097		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o4.tc	Method	TBLASTX:Cress
Start	6775	End	7076
GI	none	Score	74
Exons	6775..6900, 6796..6903, 6797..6901, 6988..7062, 6990..7076		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o3.gs	Method	GENSCAN
Start	26921	End	29768
GI	none	Score	.75
Exons	26921..27081, 27664..27817, 27909..28163, 28438..28609, 28725..28952, 29297..29430, 29511..29594, 29676..29768		

Seq. No.	29430	Seq. ID	OJ000250_05.0209.C3
Gene No.	60745	Strand	-
Start	26921	End	29783
Name	OJ000250_05.0209.C3.o2.np	Method	AAT/NAP
Start	27563	End	29783
GI	1514643	Score	1430
Exons	27563..27817, 27909..28163, 28438..28609, 28725..28952, 29297..29430, 29511..29594, 29676..29783		
GI Descrip.	(Z70524) PDR5-like ABC transporter [Spirodela polyrrhiza]		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60746	Strand	+
Start	16567	End	16775
Name	OJ000250_05.0209.C4.o3.gp	Method	AAT/GAP
Start	16567	End	16775
GI	1631463	Score	301
Exons	16567..16775		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60747	Strand	+
Start	18506	End	23068
Name	OJ000250_05.0209.C4.o2.np	Method	AAT/NAP
Start	18506	End	23068
GI	4680179	Score	7832
Exons	18506..23068		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o1.gp	Method	AAT/GAP
Start	1	End	217
GI	uC-osrocyp002e09b1	Score	423
Exons	1..217		
GI Descrip.	'1514643/emb CAA94437  6.0e-76 (Z70524) PDR5-like ABC transporter [Spirodela polyrrhiza]'		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o7.tm	Method	TBLASTX:Maize
Start	1	End	441
GI	none	Score	116
Exons	1..153, 2..109, 105..242, 106..246, 376..441		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o1.np	Method	AAT/NAP
Start	1	End	5782
GI	1514643	Score	2628
Exons	1..245, 373..480, 605..723, 814..970, 1053..1156, 1258..1418, 1501..1817, 1917..2198, 2547..2843, 2940..3086, 3393..3469, 3554..3713, 3813..3897, 3975..4063, 5131..5251, 5444..5782		
GI Descrip.	(270524) PDR5-like ABC transporter [Spirodela polyrrhiza]		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o3.tc	Method	TBLASTX:Cress
Start	1	End	3713
GI	none	Score	105
Exons	1..153, 2..109, 105..242, 106..246, 376..450, 377..451, 3582..3713		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o6.ts	Method	TBLASTX:Soybean
Start	1	End	215
GI	none	Score	146
Exons	1..114, 2..109, 105..155, 106..162, 150..215, 151..204		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o1.gs	Method	GENSCAN
Start	373	End	5772
GI	none	Score	.73
Exons	373..515, 610..723, 814..953, 1501..1817, 1917..2198, 2547..2827, 3554..3766, 3813..3897, 5131..5251, 5444..5772		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o2.gp	Method	AAT/GAP
Start	613	End	1142
GI	LIB3431-058-P1-N1-A2	Score	1048
Exons	613..1142		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o4.ts	Method	TBLASTX:Soybean
Start	833	End	1167
GI	none	Score	76
Exons	833..964, 867..968, 1053..1163, 1056..1157, 1057..1167		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
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Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o7.tw	Method	TBLASTX:Wheat
Start	1119	End	1673
GI	none	Score	40
Exons	1119..1154, 1119..1154, 1260..1421, 1260..1421, 1339..1422, 1484..1615, 1485..1616, 1486..1662, 1488..1673		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o5.ts	Method	TBLASTX:Soybean
Start	1486	End	1706
GI	none	Score	157
Exons	1486..1704, 1500..1706		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o10.tm	Method	TBLASTX:Maize
Start	1512	End	1683
GI	none	Score	107
Exons	1512..1682, 1513..1683		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o1.tc	Method	TBLASTX:Cress
Start	1536	End	1973
GI	none	Score	118
Exons	1536..1832, 1570..1734, 1908..1973		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o2.tc	Method	TBLASTX:Cress
Start	2073	End	2727
GI	none	Score	76
Exons	2073..2198, 2094..2201, 2538..2726, 2541..2705, 2542..2727, 2563..2727		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o2.ts	Method	TBLASTX:Soybean
Start	2097	End	2811
GI	none	Score	92
Exons	2097..2198, 2097..2198, 2538..2807, 2541..2798, 2542..2811, 2686..2808		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60748	Strand	-
Start	1	End	5782
Name	OJ000250_05.0209.C4.o3.tm	Method	TBLASTX:Maize
Start	2628	End	3039
GI	none	Score	216
Exons	2628..2846, 2629..2847, 2631..2849, 2934..3011, 2937..3038,		



2944..3039

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60749	Strand	
Start	18769	End	19309
Name	OJ000250_05.0209.C4.o8.tw	Method	TBLASTX:Wheat
Start	18769	End	19132
GI	none	Score	308
Exons	18769..18873, 18773..19132, 18898..19131		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60749	Strand	
Start	18769	End	19309
Name	OJ000250_05.0209.C4.o8.tm	Method	TBLASTX:Maize
Start	19013	End	19309
GI	none	Score	210
Exons	19013..19309, 19030..19200		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60750	Strand	
Start	19652	End	20074
Name	OJ000250_05.0209.C4.o9.tw	Method	TBLASTX:Wheat
Start	19652	End	20074
GI	none	Score	152
Exons	19652..19861, 19702..19800, 19861..20001, 19883..20074, 19903..20067		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60751	Strand	
Start	20231	End	21100
Name	OJ000250_05.0209.C4.o4.tw	Method	TBLASTX:Wheat
Start	20231	End	20713
GI	none	Score	542
Exons	20231..20713, 20335..20670, 20360..20704		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60751	Strand	
Start	20231	End	21100
Name	OJ000250_05.0209.C4.o6.tm	Method	TBLASTX:Maize
Start	20243	End	20532
GI	none	Score	317
Exons	20243..20530, 20341..20532		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60751	Strand	
Start	20231	End	21100
Name	OJ000250_05.0209.C4.o4.tm	Method	TBLASTX:Maize
Start	20600	End	21100
GI	none	Score	161
Exons	20600..20779, 20765..21100, 20851..20982, 21007..21093		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60751	Strand	
Start	20231	End	21100
Name	OJ000250_05.0209.C4.o1.ts	Method	TBLASTX:Soybean
Start	20654	End	21049
GI	none	Score	57

Exons 20654..20686, 20654..20698, 20686..20733, 20690..21049,  
20690..20833, 20785..21048

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60751	Strand	
Start	20231	End	21100
Name	OJ000250_05.0209.C4.o5.tw	Method	TBLASTX:Wheat
Start	20762	End	21064
GI	none	Score	402
Exons	20762..21064, 20762..21055, 20782..21063		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60752	Strand	
Start	21065	End	21574
Name	OJ000250_05.0209.C4.o2.tw	Method	TBLASTX:Wheat
Start	21065	End	21574
GI	none	Score	624
Exons	21065..21574, 21067..21408, 21143..21490		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60752	Strand	
Start	21065	End	21574
Name	OJ000250_05.0209.C4.o7.ts	Method	TBLASTX:Soybean
Start	21071	End	21316
GI	none	Score	206
Exons	21071..21316, 21076..21201, 21256..21315		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60752	Strand	
Start	21065	End	21574
Name	OJ000250_05.0209.C4.o2.tm	Method	TBLASTX:Maize
Start	21137	End	21502
GI	none	Score	487
Exons	21137..21490, 21139..21405, 21191..21502		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60753	Strand	
Start	21578	End	23058
Name	OJ000250_05.0209.C4.o3.tw	Method	TBLASTX:Wheat
Start	21578	End	22057
GI	none	Score	584
Exons	21578..22057, 21611..21937, 21649..22056		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60753	Strand	
Start	21578	End	23058
Name	OJ000250_05.0209.C4.o4.tc	Method	TBLASTX:Cress
Start	21764	End	22081
GI	none	Score	87
Exons	21764..21937, 21938..22081, 21940..22080		

Seq. No.	29431	Seq. ID	OJ000250_05.0209.C4
Gene No.	60753	Strand	
Start	21578	End	23058
Name	OJ000250_05.0209.C4.o3.ts	Method	TBLASTX:Soybean
Start	21845	End	22105
GI	none	Score	299

Exons 21845..22105, 21850..22104

Seq. No. 29431  
Gene No. 60753  
Start 21578  
Name OJ000250\_05.0209.C4.o5.tm  
Start 21904  
GI none  
Exons 21904..22191, 21905..22195

Seq. ID OJ000250\_05.0209.C4  
Strand  
End 23058  
Method TBLASTX:Maize  
End 22195  
Score 389

Seq. No. 29431  
Gene No. 60753  
Start 21578  
Name OJ000250\_05.0209.C4.o1.tw  
Start 22064  
GI none  
Exons 22064..22690, 22066..22689

Seq. ID OJ000250\_05.0209.C4  
Strand  
End 23058  
Method TBLASTX:Wheat  
End 22690  
Score 717

Seq. No. 29431  
Gene No. 60753  
Start 21578  
Name OJ000250\_05.0209.C4.o1.tm  
Start 22244  
GI none  
Exons 22244..22405, 22252..22398, 22403..22843, 22405..22830

Seq. ID OJ000250\_05.0209.C4  
Strand  
End 23058  
Method TBLASTX:Maize  
End 22843  
Score 224

Seq. No. 29431  
Gene No. 60753  
Start 21578  
Name OJ000250\_05.0209.C4.o6.tw  
Start 22690  
GI none  
Exons 22690..22743, 22691..23023, 22718..22798, 22783..22899, 22862..23002, 23005..23058

Seq. ID OJ000250\_05.0209.C4  
Strand  
End 23058  
Method TBLASTX:Wheat  
End 23058  
Score 374

Seq. No. 29431  
Gene No. 60753  
Start 21578  
Name OJ000250\_05.0209.C4.o9.tm  
Start 22847  
GI none  
Exons 22847..23044

Seq. ID OJ000250\_05.0209.C4  
Strand  
End 23058  
Method TBLASTX:Maize  
End 23044  
Score 197

Seq. No. 29432  
Gene No. 60754  
Start 1  
Name OJ000250\_05.0209.C7.o1.gp  
Start 1  
GI 1631463  
Exons 1..138

Seq. ID OJ000250\_05.0209.C7  
Strand +  
End 138  
Method AAT/GAP  
End 138  
Score 208

GI Descrip. 4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes

Seq. No. 29432  
Gene No. 60755  
Start 2690

Seq. ID OJ000250\_05.0209.C7  
Strand +  
End 3221

Name	OJ000250_05.0209.C7.o2.gp	Method	AAT/GAP
Start	2690	End	3221
GI	38782_1.R1084	Score	817
Exons	2690..3221		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	29432	Seq. ID	OJ000250_05.0209.C7
Gene No.	60756	Strand	-
Start	893	End	2342
Name	OJ000250_05.0209.C7.o1.np	Method	AAT/NAP
Start	893	End	2342
GI	6907088	Score	1044
Exons	893..1291, 1789..2027, 2205..2342		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	29432	Seq. ID	OJ000250_05.0209.C7
Gene No.	60757	Strand	-
Start	3973	End	4626
Name	OJ000250_05.0209.C7.o2.np	Method	AAT/NAP
Start	3973	End	4626
GI	2522230	Score	302
Exons	3973..4626		
GI Descrip.	(AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60758	Strand	+
Start	1473	End	2040
Name	OJ000250_05.0209.C8.o1.gp	Method	AAT/GAP
Start	1473	End	2040
GI	4879016	Score	859
Exons	1473..2040		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60759	Strand	-
Start	1	End	1100
Name	OJ000250_05.0209.C8.o1.np	Method	AAT/NAP
Start	1	End	1100
GI	4417306	Score	221
Exons	1..25, 512..1100		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60760	Strand	-
Start	4619	End	6305
Name	OJ000250_05.0209.C8.o2.tc	Method	TBLASTX:Cress
Start	335	End	700
GI	none	Score	192
Exons	335..700		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60760	Strand	-

Start 4619  
 Name OJ000250\_05.0209.C8.o3.tw  
 Start 500  
 GI none  
 Exons 500..715, 731..847

End 6305  
 Method TBLASTX:Wheat  
 End 847  
 Score 84

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o1.ts  
 Start 4616  
 GI none  
 Exons 4616..4837, 4617..4874, 4617..4871, 4765..4902, 4958..5215, 4965..5216, 5328..5411, 5339..5416

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method TBLASTX:Soybean  
 End 5416  
 Score 206

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o1.tc  
 Start 4617  
 GI none  
 Exons 4617..4730, 4748..4864, 4775..4837, 4785..4874, 4785..4898, 4964..5215, 4982..5218, 5328..5492, 5339..5515, 5628..5861

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method TBLASTX:Cress  
 End 5861  
 Score 72

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o1.tm  
 Start 4617  
 GI none  
 Exons 4617..4880, 4709..4837, 4795..4860, 4964..5215, 4965..5213, 4982..5215, 5328..5483, 5329..5433, 5339..5491, 5339..5485

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method TBLASTX:Maize  
 End 5491  
 Score 208

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o2.np  
 Start 4619  
 GI 1514643  
 Exons 4619..4873, 4958..5212, 5342..5513, 5629..5861, 6276..6305  
 GI Descrip. (Z70524) PDR5-like ABC transporter [Spirodela polyrrhiza]

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method AAT/NAP  
 End 6305  
 Score 923

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o1.tw  
 Start 4848  
 GI none  
 Exons 4848..4874, 4967..5143, 4977..5144

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method TBLASTX:Wheat  
 End 5144  
 Score 45

Seq. No. 29433  
 Gene No. 60760  
 Start 4619  
 Name OJ000250\_05.0209.C8.o4.tw  
 Start 5147  
 GI none  
 Exons 5147..5215, 5157..5216, 5339..5503, 5340..5504, 5341..5511

Seq. ID OJ000250\_05.0209.C8  
 Strand -  
 End 6305  
 Method TBLASTX:Wheat  
 End 5511  
 Score 63

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60760	Strand	-
Start	4619	End	6305
Name	OJ000250_05.0209.C8.o2.ts	Method	TBLASTX:Soybean
Start	5417	End	5861
GI	none	Score	76
Exons	5417..5515, 5418..5510, 5628..5861, 5638..5811		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60760	Strand	-
Start	4619	End	6305
Name	OJ000250_05.0209.C8.o2.tw	Method	TBLASTX:Wheat
Start	5605	End	5865
GI	none	Score	109
Exons	5605..5805, 5616..5861, 5638..5865		

Seq. No.	29433	Seq. ID	OJ000250_05.0209.C8
Gene No.	60760	Strand	-
Start	4619	End	6305
Name	OJ000250_05.0209.C8.o2.tm	Method	TBLASTX:Maize
Start	5626	End	5883
GI	none	Score	162
Exons	5626..5841, 5631..5861, 5631..5861, 5644..5883		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60761	Strand	+
Start	423	End	789
Name	OJ000250_05.0209.C9.o1.gs	Method	GENSCAN
Start	423	End	789
GI	none	Score	.54
Exons	423..789		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60762	Strand	+
Start	12828	End	21810
Name	OJ000250_05.0209.C9.o3.gs	Method	GENSCAN
Start	12828	End	21810
GI	none	Score	.71
Exons	12828..12999, 13178..13335, 13560..13635, 15194..15215, 18275..18335, 19101..19247, 19281..19458, 19558..19790, 19796..20100, 20415..20563, 20834..21012, 21736..21810		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60762	Strand	+
Start	12828	End	21810
Name	OJ000250_05.0209.C9.o2.np	Method	AAT/NAP
Start	19910	End	21283
GI	6742729	Score	1799
Exons	19910..21283		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60763	Strand	-
Start	1412	End	11301
Name	OJ000250_05.0209.C9.o2.gs	Method	GENSCAN
Start	1412	End	11295

GI	none	Score	.7
Exons	1412..1549, 1853..2143, 2390..2719, 2840..2982, 3284..3440, 3524..3627, 3737..3816, 3978..4294, 4576..4689, 4785..5086, 5162..5252, 5576..5652, 5742..5901, 5996..6080, 6152..6240, 7137..7257, 10958..11295		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60763	Strand	-
Start	1412	End	11301
Name	OJ000250_05.0209.C9.o1.np	Method	AAT/NAP
Start	1416	End	11301
GI	1514643	Score	3080
Exons	1416..1549, 1633..1716, 1853..2143, 2390..2703, 2821..2949, 3067..3183, 3284..3440, 3524..3627, 3737..3897, 3978..4294, 4408..4689, 4785..5086, 5162..5252, 5391..5441, 5576..5652, 5742..5901, 5996..6080, 6152..6240, 7137..7257, 10958..11301		

GI Descrip. (Z70524) PDR5-like ABC transporter [Spirodela polyrrhiza]

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60764	Strand	-
Start	11392	End	11798
Name	OJ000250_05.0209.C9.o1.gp	Method	AAT/GAP
Start	11392	End	11798
GI	LIB3477-003-P1-K1-E9	Score	126
Exons	11392..11486, 11776..11798		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o5.tc	Method	TBLASTX:Cress
Start	1409	End	1722
GI	none	Score	91
Exons	1409..1546, 1628..1720, 1630..1722		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o1.ts	Method	TBLASTX:Soybean
Start	1415	End	5078
GI	none	Score	109
Exons	1415..1558, 1416..1541, 1628..1717, 1633..1719, 1850..2146, 1851..2105, 2387..2698, 2391..2690, 2391..2699, 2840..2941, 2844..2912, 3288..3425, 3316..3429, 3510..3626, 3527..3625, 3738..3899, 3977..4018, 4887..4970, 4980..5078		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o6.tm	Method	TBLASTX:Maize
Start	1415	End	2006
GI	none	Score	98
Exons	1415..1558, 1422..1541, 1633..1719, 1634..1717, 1850..2005, 1851..2006		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o1.tc	Method	TBLASTX:Cress
Start	1944	End	6079
GI	none	Score	185
Exons	1944..2102, 1967..2143, 2408..2701, 2415..2702, 2433..2705, 2843..2914, 5022..5078, 5166..5258, 5770..5901, 6017..6079		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o2.tm	Method	TBLASTX:Maize
Start	2037	End	2935
GI	none	Score	97
Exons	2037..2096, 2039..2146, 2387..2701, 2391..2702, 2405..2713, 2843..2935		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o2.tw	Method	TBLASTX:Wheat
Start	3590	End	4150
GI	none	Score	56
Exons	3590..3625, 3591..3632, 3738..3899, 3739..3900, 3739..3900, 3925..4125, 3977..4150, 3978..4139		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o7.tm	Method	TBLASTX:Maize
Start	3989	End	4159
GI	none	Score	97
Exons	3989..4159, 3990..4139		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o3.tc	Method	TBLASTX:Cress
Start	4013	End	4464
GI	none	Score	65
Exons	4013..4300, 4014..4163, 4088..4264, 4399..4464		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o5.ts	Method	TBLASTX:Soybean
Start	4022	End	4267
GI	none	Score	200
Exons	4022..4081, 4061..4267		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o2.ts	Method	TBLASTX:Soybean
Start	4399	End	4886
GI	none	Score	84



Exons 4399..4689, 4421..4690, 4552..4692, 4586..4690, 4758..4886, 4768..4881

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o2.tc	Method	TBLASTX:Cress
Start	4564	End	4964
GI	none	Score	55
Exons	4564..4689, 4585..4692, 4767..4964, 4768..4941, 4779..4943		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o3.tm	Method	TBLASTX:Maize
Start	4866	End	5256
GI	none	Score	256
Exons	4866..5090, 4867..5097, 5148..5255, 5161..5256		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o1.tm	Method	TBLASTX:Maize
Start	7587	End	8558
GI	none	Score	229
Exons	7587..7817, 7610..7813, 7626..7817, 7824..8558, 7851..8015, 7949..8038, 8079..8207, 8081..8218		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o6.tw	Method	TBLASTX:Wheat
Start	7641	End	7967
GI	none	Score	225
Exons	7641..7835, 7653..7835, 7836..7919, 7841..7918, 7896..7961, 7923..7967		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o3.ts	Method	TBLASTX:Soybean
Start	8163	End	8621
GI	none	Score	227
Exons	8163..8516, 8279..8488, 8505..8621		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o7.tw	Method	TBLASTX:Wheat
Start	8328	End	8850
GI	none	Score	219
Exons	8328..8621, 8668..8706, 8734..8850		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o4.tm	Method	TBLASTX:Maize

Start	8748	End	9219
GI	none	Score	288
Exons	8748..8915, 8749..9120, 9133..9219		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o4.tw	Method	TBLASTX:Wheat
Start	8944	End	9314
GI	none	Score	323
Exons	8944..9312, 9081..9314		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o5.tw	Method	TBLASTX:Wheat
Start	19455	End	19789
GI	none	Score	74
Exons	19455..19541, 19472..19534, 19540..19743, 19547..19747, 19560..19754, 19750..19788, 19751..19789		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o4.ts	Method	TBLASTX:Soybean
Start	19722	End	20158
GI	none	Score	42
Exons	19722..19754, 19751..19795, 19796..19858, 19856..20158, 19885..20157		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o4.tc	Method	TBLASTX:Cress
Start	19888	End	20226
GI	none	Score	255
Exons	19888..20034, 19889..20212, 20080..20211, 20092..20226		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o3.tw	Method	TBLASTX:Wheat
Start	20017	End	20298
GI	none	Score	194
Exons	20017..20286, 20017..20298, 20018..20290		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o5.tm	Method	TBLASTX:Maize
Start	20066	End	20520
GI	none	Score	191
Exons	20066..20290, 20075..20299, 20356..20520		

Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578

Name	OJ000250_05.0209.C9.o1.tw	Method	TBLASTX:Wheat
Start	20626	End	21069
GI	none	Score	71
Exons	20626..20688, 20674..20916, 20694..20876, 20698..20916, 20946..21068, 20949..21068, 20950..21069		
Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o8.tw	Method	TBLASTX:Wheat
Start	21076	End	21281
GI	none	Score	45
Exons	21076..21105, 21114..21281, 21149..21274		
Seq. No.	29434	Seq. ID	OJ000250_05.0209.C9
Gene No.	60765	Strand	-
Start	25856	End	26578
Name	OJ000250_05.0209.C9.o4.gs	Method	GENSCAN
Start	25856	End	26578
GI	none	Score	.68
Exons	25856..25890, 26040..26106, 26543..26578		
Seq. No.	29435	Seq. ID	OJ000250_05.0209.C10
Gene No.	60766	Strand	+
Start	1	End	3409
Name	OJ000250_05.0209.C10.o1.np	Method	AAT/NAP
Start	1	End	3409
GI	5295955	Score	303
Exons	1..19, 1468..1561, 2103..2217, 2899..3409		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome. (V01555) [Oryza sativa]		
Seq. No.	29435	Seq. ID	OJ000250_05.0209.C10
Gene No.	60767	Strand	-
Start	2911	End	3409
Name	OJ000250_05.0209.C10.o2.np	Method	AAT/NAP
Start	2911	End	3409
GI	1947160	Score	50
Exons	2911..3409		
GI Descrip.	(AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		
Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.gs	Method	GENSCAN
Start	317	End	3353
GI	none	Score	.45
Exons	317..1111, 1295..1471, 1526..1765, 1877..2215, 2288..2849, 3080..3353		
Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.np	Method	AAT/NAP
Start	320	End	3434
GI	4680179	Score	4717

Exons 320..3434  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o6.tm	Method	TBLASTX:Maize
Start	344	End	556
GI	none	Score	89
Exons	344..556, 345..527		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o5.tw	Method	TBLASTX:Wheat
Start	365	End	698
GI	none	Score	57
Exons	365..697, 366..452, 561..698		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.tm	Method	TBLASTX:Maize
Start	557	End	1144
GI	none	Score	222
Exons	557..985, 558..983, 983..1144, 990..1136		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.tw	Method	TBLASTX:Wheat
Start	698	End	1324
GI	none	Score	388
Exons	698..1324, 699..1268		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o3.tm	Method	TBLASTX:Maize
Start	1196	End	1484
GI	none	Score	134
Exons	1196..1414, 1198..1422, 1200..1484, 1202..1483		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o2.ts	Method	TBLASTX:Soybean
Start	1283	End	1543
GI	none	Score	154
Exons	1283..1543, 1284..1538		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.tc	Method	TBLASTX:Cress
Start	1307	End	1633
GI	none	Score	98

Exons 1307..1450, 1308..1448, 1457..1633

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o3.tw	Method	TBLASTX:Wheat
Start	1331	End	1810
GI	none	Score	309
Exons	1331..1810, 1332..1715, 1336..1719, 1364..1792		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o2.tw	Method	TBLASTX:Wheat
Start	1814	End	2317
GI	none	Score	319
Exons	1814..2317, 1815..2315, 1904..2317		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o2.tm	Method	TBLASTX:Maize
Start	1898	End	2251
GI	none	Score	198
Exons	1898..2251, 1983..2231		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o3.ts	Method	TBLASTX:Soybean
Start	2072	End	2314
GI	none	Score	190
Exons	2072..2314		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o4.tm	Method	TBLASTX:Maize
Start	2288	End	2788
GI	none	Score	82
Exons	2288..2578, 2406..2537, 2645..2788		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o6.tw	Method	TBLASTX:Wheat
Start	2322	End	2616
GI	none	Score	226
Exons	2322..2585, 2324..2584, 2545..2616		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o1.ts	Method	TBLASTX:Soybean
Start	2330	End	2734
GI	none	Score	156
Exons	2330..2695, 2339..2584, 2500..2691, 2556..2696, 2702..2734,		

2702..2734

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o4.tw	Method	TBLASTX:Wheat
Start	2675	End	3160
GI	none	Score	75
Exons	2675..2830, 2718..2819, 2783..3160, 2821..3156		

Seq. No.	29436	Seq. ID	OJ000250_05.0209.C11
Gene No.	60768	Strand	-
Start	317	End	3434
Name	OJ000250_05.0209.C11.o5.tm	Method	TBLASTX:Maize
Start	2855	End	3145
GI	none	Score	136
Exons	2855..3046, 2857..3144, 3074..3145		

Seq. No.	29437	Seq. ID	OJ000250_07.0208.C2
Gene No.	60769	Strand	+
Start	204	End	406
Name	OJ000250_07.0208.C2.o1.gs	Method	GENSCAN
Start	204	End	406
GI	none	Score	.94
Exons	204..406		

Seq. No.	29437	Seq. ID	OJ000250_07.0208.C2
Gene No.	60770	Strand	-
Start	781	End	859
Name	OJ000250_07.0208.C2.o1.gp	Method	AAT/GAP
Start	781	End	859
GI	90742 1.R1084	Score	101
Exons	781..859		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60771	Strand	+
Start	1597	End	2560
Name	OJ000250_07.0208.C3.o1.gs	Method	GENSCAN
Start	1597	End	2556
GI	none	Score	.94
Exons	1597..2556		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60771	Strand	+
Start	1597	End	2560
Name	OJ000250_07.0208.C3.o1.np	Method	AAT/NAP
Start	1597	End	2560
GI	5668813	Score	586
Exons	1597..2560		
GI Descrip.	(AC007519) Similar to gb X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF 00135 Carboxylesterase family. ESTs gb Z25688 and gb F14025 come from this gene. [Arabidopsis thaliana]		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
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Gene No.	60772	Strand	+
Start	9811	End	11496
Name	OJ000250_07.0208.C3.o4.gs	Method	GENSCAN
Start	9811	End	11496
GI	none	Score	.88
Exons	9811..10728, 10840..10977, 11086..11216, 11349..11496		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60773	Strand	-
Start	3477	End	4583
Name	OJ000250_07.0208.C3.o1.gp	Method	AAT/GAP
Start	3197	End	3605
GI	6024932	Score	752
Exons	3197..3605		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60773	Strand	-
Start	3477	End	4583
Name	OJ000250_07.0208.C3.o2.gs	Method	GENSCAN
Start	3477	End	4583
GI	none	Score	.82
Exons	3477..4583		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60774	Strand	-
Start	8000	End	9046
Name	OJ000250_07.0208.C3.o3.gs	Method	GENSCAN
Start	8000	End	9046
GI	none	Score	.56
Exons	8000..8503, 8942..9046		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o1.tw	Method	TBLASTX:Wheat
Start	1564	End	14671
GI	none	Score	88
Exons	1564..1710, 1597..1695, 1644..1712, 1704..1805, 1705..1806, 1786..1896, 1818..1895, 4149..4238, 4150..4239, 4248..4424, 4249..4428, 9963..10076, 9982..10077, 10086..10151, 10087..10161, 10209..10241, 10210..10278, 14381..14464, 14409..14465, 14471..14572, 14538..14573, 14570..14671, 14571..14636		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o1.ts	Method	TBLASTX:Soybean
Start	1630	End	14665
GI	none	Score	135
Exons	1630..1818, 1630..1707, 1813..1983, 1818..1949, 2031..2123, 2032..2124, 2148..2198, 2149..2199, 2272..2307, 2323..2487, 3546..3698, 3708..3836, 3825..3884, 3888..4013, 3931..4011, 4071..4235, 4248..4325, 4341..4424, 9979..10161, 9981..10151, 10210..10404, 10212..10397, 10278..10406, 10404..10526, 10405..10527, 10543..10602, 10720..10884, 13775..13942, 13779..13910, 13949..14071, 13959..14042, 14060..14119,		

14126..14461, 14127..14459, 14519..14665

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o1.tc	Method	TBLASTX:Cress
Start	1630	End	14668
GI	none	Score	113
Exons	1630..1797, 1818..1949, 1819..1971, 2032..2121, 2158..2250, 2329..2550, 3486..3695, 3810..3875, 3900..4010, 4074..4238, 4153..4227, 4248..4334, 4249..4335, 4335..4424, 4336..4428, 9988..10161, 9999..10121, 10210..10353, 10212..10349, 10363..10395, 10411..10524, 10458..10523, 10552..10617, 13721..13936, 14048..14110, 14099..14296, 14133..14294, 14306..14458, 14310..14459, 14426..14668		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o3.tm	Method	TBLASTX:Maize
Start	1636	End	14671
GI	none	Score	76
Exons	1636..1710, 1650..1754, 1705..1782, 4230..4424, 4231..4428, 4491..4580, 4547..4579, 9966..10160, 9976..10089, 10087..10161, 14480..14566, 14564..14671		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o2.tm	Method	TBLASTX:Maize
Start	1804	End	14471
GI	none	Score	185
Exons	1804..1983, 1815..1940, 1959..2018, 2029..2127, 2034..2126, 3910..4011, 3912..4229, 4156..4227, 10210..10422, 10212..10397, 10410..10514, 10411..10515, 14123..14470, 14124..14471		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o1.tm	Method	TBLASTX:Maize
Start	2149	End	14122
GI	none	Score	60
Exons	2149..2217, 2281..2313, 2428..2544, 3477..3776, 3477..3908, 3610..3858, 3834..3896, 10515..10685, 10516..10716, 10723..10929, 13715..13927, 13952..14122		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686
Name	OJ000250_07.0208.C3.o2.tw	Method	TBLASTX:Wheat
Start	2281	End	14074
GI	none	Score	108
Exons	2281..2385, 10588..10743, 13874..14074, 13875..14066		

Seq. No.	29438	Seq. ID	OJ000250_07.0208.C3
Gene No.	60775	Strand	-
Start	13712	End	14686



Name OJ000250\_07.0208.C3.o2.gp  
 Start 13574  
 GI 5005104  
 Exons 13574..13823

Method AAT/GAP  
 End 13823  
 Score 387

Seq. No. 29438  
 Gene No. 60775  
 Start 13712  
 Name OJ000250\_07.0208.C3.o2.np  
 Start 13706  
 GI 5668813  
 Exons 13706..14677

Seq. ID OJ000250\_07.0208.C3  
 Strand -  
 End 14686  
 Method AAT/NAP  
 End 14677  
 Score 560

GI Descrip. (AC007519) Similar to gb|X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF|00135 Carboxylesterase family. ESTs gb|Z25688 and gb|F14025 come from this gene. [Arabidopsis thaliana]

Seq. No. 29438  
 Gene No. 60775  
 Start 13712  
 Name OJ000250\_07.0208.C3.o5.gs  
 Start 13712  
 GI none  
 Exons 13712..14686

Seq. ID OJ000250\_07.0208.C3  
 Strand -  
 End 14686  
 Method GENSCAN  
 End 14686  
 Score .91

Seq. No. 29439  
 Gene No. 60776  
 Start 1  
 Name OJ000250\_07.0208.C4.o1.np  
 Start 1  
 GI 5668813  
 Exons 1..664

Seq. ID OJ000250\_07.0208.C4  
 Strand +  
 End 664  
 Method AAT/NAP  
 End 664  
 Score 425

GI Descrip. (AC007519) Similar to gb|X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF|00135 Carboxylesterase family. ESTs gb|Z25688 and gb|F14025 come from this gene. [Arabidopsis thaliana]

Seq. No. 29439  
 Gene No. 60776  
 Start 1  
 Name OJ000250\_07.0208.C4.o1.gs  
 Start 212  
 GI none  
 Exons 212..661

Seq. ID OJ000250\_07.0208.C4  
 Strand +  
 End 664  
 Method GENSCAN  
 End 661  
 Score .84

Seq. No. 29439  
 Gene No. 60777  
 Start 997  
 Name OJ000250\_07.0208.C4.o3.np  
 Start 997  
 GI 5107822  
 Exons 997..1050, 10821..10945

Seq. ID OJ000250\_07.0208.C4  
 Strand +  
 End 11292  
 Method AAT/NAP  
 End 10945  
 Score 48

GI Descrip. (AF149413) contains similarity to retrotransposon Tall-1 [Arabidopsis thaliana]

Seq. No. 29439  
 Gene No. 60777

Seq. ID OJ000250\_07.0208.C4  
 Strand +

Start	997	End	11292
Name	OJ000250_07.0208.C4.o2.gs	Method	GENSCAN
Start	3901	End	6463
GI	none	Score	.87
Exons	3901..4038, 4707..4888, 4966..5152, 5423..5590, 5736..6038, 6133..6314, 6406..6463		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60777	Strand	+
Start	997	End	11292
Name	OJ000250_07.0208.C4.o2.np	Method	AAT/NAP
Start	3901	End	6481
GI	2739381	Score	1147
Exons	3901..4038, 4707..4888, 4966..5155, 5432..5590, 5736..6038, 6133..6287, 6388..6481		
GI Descrip.	(AC002505) similar to latex allergen from Hevea brasiliensis [Arabidopsis thaliana]		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60777	Strand	+
Start	997	End	11292
Name	OJ000250_07.0208.C4.o3.gs	Method	GENSCAN
Start	6818	End	9155
GI	none	Score	.7
Exons	6818..6895, 6955..7049, 8630..9155		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60777	Strand	+
Start	997	End	11292
Name	OJ000250_07.0208.C4.o4.np	Method	AAT/NAP
Start	10480	End	11292
GI	6815109	Score	192
Exons	10480..10657, 11081..11292		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o1.ts	Method	TBLASTX:Soybean
Start	10	End	652
GI	none	Score	136
Exons	10..30, 11..112, 23..58, 124..285, 125..283, 385..570, 386..652, 392..601		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o3.tc	Method	TBLASTX:Cress
Start	11	End	658
GI	none	Score	53
Exons	11..55, 65..247, 112..252, 251..283, 434..658		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o1.tm	Method	TBLASTX:Maize
Start	124	End	553

GI	none	Score	268
Exons	124..285, 125..286, 152..286, 308..397, 309..398, 331..396, 332..397, 391..552, 392..553, 392..553		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o3.ts	Method	TBLASTX:Soybean
Start	3894	End	5038
GI	none	Score	145
Exons	3894..4034, 3898..4038, 3901..4038, 4701..4883, 4701..4883, 4706..4891, 4973..5038		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o2.tc	Method	TBLASTX:Cress
Start	3933	End	5518
GI	none	Score	127
Exons	3933..4025, 3934..4038, 3937..4041, 4701..4883, 4709..4903, 4709..4879, 4967..5155, 5005..5166, 5444..5518		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o2.tm	Method	TBLASTX:Maize
Start	3933	End	6258
GI	none	Score	131
Exons	3933..4025, 3934..4038, 4701..4883, 4709..4882, 5008..5142, 5009..5152, 5411..5539, 5461..5538, 5546..5590, 5557..5589, 5739..6038, 5741..6028, 6111..6257, 6130..6258		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o1.tc	Method	TBLASTX:Cress
Start	5524	End	6258
GI	none	Score	98
Exons	5524..5598, 5525..5590, 5734..5913, 5735..6025, 5736..6047, 6133..6258		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o2.ts	Method	TBLASTX:Soybean
Start	5786	End	6270
GI	none	Score	132
Exons	5786..5911, 5787..5915, 5924..6034, 5925..6038, 6130..6270, 6132..6257		

Seq. No.	29439	Seq. ID	OJ000250_07.0208.C4
Gene No.	60778	Strand	-
Start	10349	End	11132
Name	OJ000250_07.0208.C4.o4.gs	Method	GENSCAN
Start	10349	End	11132
GI	none	Score	.7
Exons	10349..10491, 10780..10804, 10958..11132		

Seq. No.	29440	Seq. ID	OJ000250_07.0208.C5
Gene No.	60779	Strand	+
Start	1	End	2215
Name	OJ000250_07.0208.C5.o1.np	Method	AAT/NAP
Start	1	End	2215
GI	5042454	Score	330
Exons	1..305, 884..1311, 2137..2215		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29440	Seq. ID	OJ000250_07.0208.C5
Gene No.	60780	Strand	-
Start	831	End	1903
Name	OJ000250_07.0208.C5.o1.gs	Method	GENSCAN
Start	831	End	1903
GI	none	Score	.43
Exons	831..1322, 1742..1903		

Seq. No.	29441	Seq. ID	OJ000250_07.0208.C6
Gene No.	60781	Strand	+
Start	361	End	423
Name	OJ000250_07.0208.C6.o1.gs	Method	GENSCAN
Start	361	End	423
GI	none	Score	.42
Exons	361..423		

Seq. No.	29441	Seq. ID	OJ000250_07.0208.C6
Gene No.	60782	Strand	
Start	1278	End	1457
Name	OJ000250_07.0208.C6.o1.tm	Method	TBLASTX:Maize
Start	1278	End	1457
GI	none	Score	186
Exons	1278..1457, 1278..1451		

Seq. No.	29442	Seq. ID	OJ000250_07.0208.C7
Gene No.	60783	Strand	-
Start	1	End	2810
Name	OJ000250_07.0208.C7.o1.np	Method	AAT/NAP
Start	1	End	1431
GI	2586082	Score	868
Exons	1..1431		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	29442	Seq. ID	OJ000250_07.0208.C7
Gene No.	60783	Strand	-
Start	1	End	2810
Name	OJ000250_07.0208.C7.o2.np	Method	AAT/NAP
Start	1	End	2810
GI	2586082	Score	866
Exons	1..1431, 2779..2810		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	29442	Seq. ID	OJ000250_07.0208.C7
Gene No.	60784	Strand	-
Start	4527	End	4614
Name	OJ000250_07.0208.C7.o3.np	Method	AAT/NAP
Start	4527	End	4614

GI 6721547 Score 74  
 Exons 4527..4614  
 GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o2.tm Method TBLASTX:Maize  
 Start 2 End 365  
 GI none Score 40  
 Exons 2..73, 3..47, 76..141, 86..151, 185..226, 228..365, 233..355

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o2.ts Method TBLASTX:Soybean  
 Start 2 End 508  
 GI none Score 259  
 Exons 2..73, 185..508

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o2.tw Method TBLASTX:Wheat  
 Start 293 End 508  
 GI none Score 194  
 Exons 293..508

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o1.tm Method TBLASTX:Maize  
 Start 538 End 816  
 GI none Score 73  
 Exons 538..816, 644..796

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o1.ts Method TBLASTX:Soybean  
 Start 628 End 1097  
 GI 5509260 Score 64  
 Exons 628..801, 637..801, 827..1096, 828..1097  
 GI Descrip. -

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o1.tw Method TBLASTX:Wheat  
 Start 631 End 947  
 GI none Score 89  
 Exons 631..801, 644..790, 827..931, 828..947

Seq. No. 29442 Seq. ID OJ000250\_07.0208.C7  
 Gene No. 60785 Strand -  
 Start 5647 End 6711  
 Name OJ000250\_07.0208.C7.o1.tc Method TBLASTX:Cress

Start	730	End	980
GI	none	Score	37
Exons	730..822, 738..788, 845..979, 849..980		

Seq. No.	29442	Seq. ID	OJ000250_07.0208.C7
Gene No.	60785	Strand	-
Start	5647	End	6711
Name	OJ000250_07.0208.C7.o2.gs	Method	GENSCAN
Start	5647	End	6711
GI	none	Score	.58
Exons	5647..5850, 6484..6711		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60786	Strand	+
Start	1	End	3694
Name	OJ000250_07.0208.C8.o1.np	Method	AAT/NAP
Start	1	End	3424
GI	2708532	Score	839
Exons	1..23, 1291..1785, 2676..2749, 2831..2961, 3061..3157, 3260..3424		
GI Descrip.	(AF029351) putative RNA binding protein [Nicotiana tabacum]		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60786	Strand	+
Start	1	End	3694
Name	OJ000250_07.0208.C8.o1.gs	Method	GENSCAN
Start	476	End	3683
GI	none	Score	.79
Exons	476..547, 1298..1691, 2691..2749, 2831..2961, 3061..3157, 3260..3415, 3636..3683		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60786	Strand	+
Start	1	End	3694
Name	OJ000250_07.0208.C8.o1.gp	Method	AAT/GAP
Start	3256	End	3694
GI	none	Score	809
Exons	3256..3694		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o1.tm	Method	TBLASTX:Maize
Start	1284	End	3423
GI	none	Score	663
Exons	1284..1607, 1295..1747, 1297..1752, 1297..1752, 1305..1754, 1626..1754, 2830..2907, 2831..2896, 2842..2955, 2900..2962, 3056..3157, 3058..3156, 3251..3307, 3302..3346, 3313..3351, 3364..3423, 3365..3421		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o1.tc	Method	TBLASTX:Cress
Start	1295	End	2923
GI	none	Score	226
Exons	1295..1483, 1297..1473, 1298..1366, 1474..1737, 1475..1744,		

1503..1742, 1538..1696, 2831..2923, 2833..2922

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o1.ts	Method	TBLASTX:Soybean
Start	1295	End	3337
GI	none	Score	255
Exons	1295..1495, 1296..1367, 1297..1491, 1475..1747, 1480..1755, 1538..1693, 2684..2752, 2831..2962, 2832..2957, 2833..2964, 3058..3165, 3059..3166, 3062..3172, 3287..3337		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o1.tw	Method	TBLASTX:Wheat
Start	1310	End	1700
GI	none	Score	59
Exons	1310..1366, 1468..1698, 1469..1699, 1470..1700, 1578..1700		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.gs	Method	GENSCAN
Start	4230	End	11803
GI	none	Score	.51
Exons	4230..4359, 4776..4977, 6837..6886, 7297..7370, 8152..8211, 8308..8553, 9510..9784, 10157..10264, 10457..10726, 11695..11803		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.np	Method	AAT/NAP
Start	7049	End	10790
GI	1706082	Score	832
Exons	7049..7221, 7297..7402, 7941..8023, 8095..8305, 8385..8553, 9510..9784, 10157..10264, 10382..10790		
GI Descrip.	SERINE CARBOXYPEPTIDASE II-3 PRECURSOR (CP-MII.3) gi 629787 pir  S44191 serine-type carboxypeptidase (EC 3.4.16.1) II-3 - barley gi 619350 bbs 153536 CP-MII.3=serine carboxypeptidase [Hordeum vulgare=barley, cv. Alexis, aleurone, Peptide, 516 aa] gi 474392 emb CAA55478.1  (X78877) serine carboxylase II-3 [Hordeum vulgare]		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o3.ts	Method	TBLASTX:Soybean
Start	7138	End	9788
GI	none	Score	155
Exons	7138..7176, 7294..7404, 7934..8020, 8122..8202, 8347..8391, 8425..8553, 9507..9788, 9583..9783		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o5.tm	Method	TBLASTX:Maize

Start	7154	End	7421
GI	none	Score	52
Exons	7154..7210, 7155..7211, 7156..7215, 7294..7404, 7295..7405, 7296..7421		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o4.tm	Method	TBLASTX:Maize
Start	7943	End	9725
GI	none	Score	90
Exons	7943..8017, 8122..8205, 8425..8553, 9507..9725, 9531..9692, 9583..9723		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o3.tw	Method	TBLASTX:Wheat
Start	8768	End	8930
GI	none	Score	176
Exons	8768..8911, 8769..8930		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o3.tm	Method	TBLASTX:Maize
Start	8870	End	9151
GI	none	Score	320
Exons	8870..9151, 8874..9149		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.tw	Method	TBLASTX:Wheat
Start	8937	End	9338
GI	none	Score	101
Exons	8937..9086, 9165..9338		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.tc	Method	TBLASTX:Cress
Start	9552	End	9783
GI	none	Score	126
Exons	9552..9782, 9565..9693, 9576..9770, 9742..9783		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.tm	Method	TBLASTX:Maize
Start	9726	End	10748
GI	none	Score	67
Exons	9726..9788, 9728..9784, 9742..9786, 10158..10262, 10158..10265, 10159..10266, 10362..10511, 10381..10479, 10383..10511, 10509..10601, 10516..10557, 10707..10748		

Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
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Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o2.ts	Method	TBLASTX:Soybean
Start	10161	End	10574
GI	none	Score	58
Exons	10161..10262, 10162..10263, 10383..10574, 10384..10548		
Seq. No.	29443	Seq. ID	OJ000250_07.0208.C8
Gene No.	60787	Strand	-
Start	4230	End	11803
Name	OJ000250_07.0208.C8.o3.tc	Method	TBLASTX:Cress
Start	10161	End	10544
GI	none	Score	115
Exons	10161..10265, 10380..10412, 10428..10544		
Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60788	Strand	-
Start	360	End	5343
Name	OJ000250_07.0208.C9.o1.gs	Method	GENSCAN
Start	360	End	5343
GI	none	Score	.71
Exons	360..380, 604..651, 749..857, 946..1035, 1275..1384, 1503..1748, 2113..2202, 2847..3124, 3336..3464, 3529..3853, 4852..4907, 4965..5035, 5187..5248, 5338..5343		
Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60788	Strand	-
Start	360	End	5343
Name	OJ000250_07.0208.C9.o1.np	Method	AAT/NAP
Start	494	End	3928
GI	1706082	Score	838
Exons	494..664, 753..857, 946..1030, 1267..1422, 1541..1748, 2847..3124, 3336..3443, 3529..3928		
GI Descrip.	SERINE CARBOXYPEPTIDASE II-3 PRECURSOR (CP-MII.3) gi 629787 pir  S44191 serine-type carboxypeptidase (EC 3.4.16.1) II-3 - barley gi 619350 bbs 153536 CP-MII.3=serine carboxypeptidase [Hordeum vulgare=barley, cv. Alexis, aleurone, Peptide, 516 aa] gi 474392 emb CAA55478.1  (X78877) serine carboxylase II-3 [Hordeum vulgare]		
Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60789	Strand	-
Start	6105	End	6443
Name	OJ000250_07.0208.C9.o2.gs	Method	GENSCAN
Start	6105	End	6443
GI	none	Score	.73
Exons	6105..6250, 6434..6443		
Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o2.ts	Method	TBLASTX:Soybean
Start	499	End	3125
GI	none	Score	57
Exons	499..615, 545..622, 645..692, 755..862, 948..1022, 1304..1375, 1542..1592, 1611..1754, 2904..3125, 2923..3123		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o3.tm	Method	TBLASTX:Maize
Start	544	End	1388
GI	none	Score	82
Exons	544..618, 551..631, 563..652, 570..653, 767..862, 771..863, 948..1031, 951..1031, 1301..1384, 1305..1388		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o2.tm	Method	TBLASTX:Maize
Start	1644	End	3065
GI	none	Score	107
Exons	1644..1748, 2844..3065, 2919..3011, 2920..3063		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o1.tc	Method	TBLASTX:Cress
Start	2850	End	3122
GI	none	Score	173
Exons	2850..3122, 2920..3108		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o1.tm	Method	TBLASTX:Maize
Start	3070	End	3724
GI	none	Score	87
Exons	3070..3126, 3072..3125, 3075..3149, 3337..3444, 3338..3445, 3527..3658, 3528..3659, 3656..3724, 3657..3686		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o1.ts	Method	TBLASTX:Soybean
Start	3340	End	3841
GI	none	Score	101
Exons	3340..3441, 3341..3442, 3530..3841, 3531..3686		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o2.tc	Method	TBLASTX:Cress
Start	3340	End	3712
GI	none	Score	84
Exons	3340..3444, 3368..3463, 3527..3559, 3572..3712, 3573..3674		

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o1.gp	Method	AAT/GAP
Start	9784	End	9850
GI	90742_1.R1084	Score	59
Exons	9784..9850		

GI Descrip. '5734616/dbj|AP000391.1|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'

Seq. No.	29444	Seq. ID	OJ000250_07.0208.C9
Gene No.	60790	Strand	-
Start	13074	End	13129
Name	OJ000250_07.0208.C9.o3.gs	Method	GENSCAN
Start	13074	End	13129
GI	none	Score	.58
Exons	13074..13129		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60791	Strand	+
Start	203	End	4593
Name	OJ000250_07.0208.C11.o1.gs	Method	GENSCAN
Start	203	End	4593
GI	none	Score	.79
Exons	203..292, 962..1306, 1428..1877, 1997..2364, 2498..2597, 3175..3234, 3350..3433, 3563..3688, 3808..3975, 3988..4097, 4455..4593		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60791	Strand	+
Start	203	End	4593
Name	OJ000250_07.0208.C11.o1.np	Method	AAT/NAP
Start	944	End	4113
GI	4006868	Score	907
Exons	944..1090, 1190..1306, 1428..2143, 2213..2364, 2498..2597, 3175..3234, 3350..3440, 3579..3688, 3808..4113		

GI Descrip. (Z99707) putative protein [Arabidopsis thaliana]

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60791	Strand	+
Start	203	End	4593
Name	OJ000250_07.0208.C11.o1.gp	Method	AAT/GAP
Start	2321	End	3648
GI	LIB3433-031-P1-K1-G8	Score	652
Exons	2321..2364, 2498..2597, 3175..3234, 3350..3433, 3563..3648		
GI Descrip.	'4006868/emb CAB16786.1  4.0e-33 (Z99707) putative protein [Arabidopsis thaliana]'		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60792	Strand	-
Start	4835	End	5959
Name	OJ000250_07.0208.C11.o2.ts	Method	TBLASTX:Soybean
Start	1043	End	1324
GI	none	Score	54
Exons	1043..1093, 1190..1324		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60792	Strand	-
Start	4835	End	5959
Name	OJ000250_07.0208.C11.o2.tm	Method	TBLASTX:Maize
Start	1190	End	1490
GI	none	Score	182
Exons	1190..1306, 1235..1306, 1311..1490		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60792	Strand	-
Start	4835	End	5959
Name	OJ000250_07.0208.C11.o1.tm	Method	TBLASTX:Maize
Start	1496	End	2289
GI	none	Score	110
Exons	1496..1633, 1496..1633, 1641..1832, 1670..1705, 1729..1845, 1730..1834, 1731..1838, 2012..2080, 2034..2141, 2068..2142, 2074..2160, 2075..2161, 2131..2220, 2191..2289, 2222..2287		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60792	Strand	-
Start	4835	End	5959
Name	OJ000250_07.0208.C11.o1.ts	Method	TBLASTX:Soybean
Start	3650	End	4116
GI	none	Score	68
Exons	3650..3694, 3808..3873, 3918..4031, 3919..4095, 4047..4103, 4057..4116		

Seq. No.	29445	Seq. ID	OJ000250_07.0208.C11
Gene No.	60792	Strand	-
Start	4835	End	5959
Name	OJ000250_07.0208.C11.o2.gs	Method	GENSCAN
Start	4835	End	5959
GI	none	Score	.55
Exons	4835..4893, 4991..5183, 5270..5350, 5954..5959		

Seq. No.	29446	Seq. ID	OJ000250_07.0208.C12
Gene No.	60793	Strand	+
Start	1	End	1152
Name	OJ000250_07.0208.C12.o1.gs	Method	GENSCAN
Start	1	End	1152
GI	none	Score	.64
Exons	1..296, 357..590, 704..799, 1026..1152		

Seq. No.	29446	Seq. ID	OJ000250_07.0208.C12
Gene No.	60793	Strand	+
Start	1	End	1152
Name	OJ000250_07.0208.C12.o1.np	Method	AAT/NAP
Start	1	End	296
GI	100920	Score	257
Exons	1..296		
GI Descrip.	rab28 protein - maize gi 22460 emb CAA41854  (X59138) abscisic acid-inducible [Zea mays]		

Seq. No.	29446	Seq. ID	OJ000250_07.0208.C12
Gene No.	60793	Strand	+
Start	1	End	1152
Name	OJ000250_07.0208.C12.o1.ts	Method	TBLASTX:Soybean
Start	4	End	261
GI	none	Score	224
Exons	4..225, 6..260, 7..261		

Seq. No.	29446	Seq. ID	OJ000250_07.0208.C12
Gene No.	60793	Strand	+
Start	1	End	1152
Name	OJ000250_07.0208.C12.o1.tc	Method	TBLASTX:Cress

Start 7  
GI none  
Exons 7..261, 24..185, 207..260

End 261  
Score 189

Seq. No. 29447  
Gene No. 60794  
Start 1  
Name OJ000250\_07.0208.C13.o1.np  
Start 1  
GI 5668813  
Exons 1..634  
GI Descrip. (AC007519) Similar to gb|X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF|00135 Carboxylesterase family. ESTs gb|Z25688 and gb|F14025 come from this gene. [Arabidopsis thaliana]

Seq. ID OJ000250\_07.0208.C13  
Strand +  
End 634  
Method AAT/NAP  
End 634  
Score 374

Seq. No. 29447  
Gene No. 60794  
Start 1  
Name OJ000250\_07.0208.C13.o1.tc  
Start 2  
GI none  
Exons 2..58, 19..54, 68..97, 115..210, 116..223, 233..364, 412..618, 530..619

Seq. ID OJ000250\_07.0208.C13  
Strand +  
End 634  
Method TBLASTX:Cress  
End 619  
Score 59

Seq. No. 29447  
Gene No. 60794  
Start 1  
Name OJ000250\_07.0208.C13.o1.ts  
Start 14  
GI none  
Exons 14..121, 17..106, 110..229, 112..189, 223..264, 224..292, 323..460, 355..480

Seq. ID OJ000250\_07.0208.C13  
Strand +  
End 634  
Method TBLASTX:Soybean  
End 480  
Score 115

Seq. No. 29447  
Gene No. 60794  
Start 1  
Name OJ000250\_07.0208.C13.o1.tm  
Start 34  
GI none  
Exons 34..210, 35..220, 223..381, 224..382

Seq. ID OJ000250\_07.0208.C13  
Strand +  
End 634  
Method TBLASTX:Maize  
End 382  
Score 217

Seq. No. 29447  
Gene No. 60794  
Start 1  
Name OJ000250\_07.0208.C13.o1.gs  
Start 66  
GI none  
Exons 66..631

Seq. ID OJ000250\_07.0208.C13  
Strand +  
End 634  
Method GENSCAN  
End 631  
Score .97

Seq. No. 29448  
Gene No. 60795  
Start 1  
Name OJ000250\_07.0208.C14.o1.gp  
Start 1  
GI 6024932  
Exons 1..107

Seq. ID OJ000250\_07.0208.C14  
Strand -  
End 107  
Method AAT/GAP  
End 107  
Score 210

Seq. No.	29449	Seq. ID	OJ000250_07.0208.C16
Gene No.	60796	Strand	+
Start	59	End	448
Name	OJ000250_07.0208.C16.o1.tm	Method	TBLASTX:Maize
Start	56	End	448
GI	none	Score	88
Exons	56..208, 79..207, 196..432, 197..448, 341..448		

Seq. No.	29449	Seq. ID	OJ000250_07.0208.C16
Gene No.	60796	Strand	+
Start	59	End	448
Name	OJ000250_07.0208.C16.o1.gs	Method	GENSCAN
Start	59	End	442
GI	none	Score	.99
Exons	59..133, 224..442		

Seq. No.	29449	Seq. ID	OJ000250_07.0208.C16
Gene No.	60796	Strand	+
Start	59	End	448
Name	OJ000250_07.0208.C16.o1.ts	Method	TBLASTX:Soybean
Start	133	End	430
GI	none	Score	184
Exons	133..354, 134..430		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60797	Strand	+
Start	241	End	1176
Name	OJ000250_07.0208.C17.o1.gs	Method	GENSCAN
Start	241	End	1176
GI	none	Score	1
Exons	241..1176		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60797	Strand	+
Start	241	End	1176
Name	OJ000250_07.0208.C17.o1.np	Method	AAT/NAP
Start	241	End	1176
GI	6523100	Score	588
Exons	241..1176		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60798	Strand	+
Start	1575	End	3415
Name	OJ000250_07.0208.C17.o2.tm	Method	TBLASTX:Maize
Start	285	End	528
GI	none	Score	296
Exons	285..521, 289..528		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60798	Strand	+
Start	1575	End	3415
Name	OJ000250_07.0208.C17.o1.tc	Method	TBLASTX:Cress
Start	289	End	1164
GI	none	Score	114
Exons	289..435, 300..431, 429..521, 430..603, 613..642, 625..774,		

648..773, 778..831, 949..1164, 1071..1163

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60798	Strand	+
Start	1575	End	3415
Name	OJ000250_07.0208.C17.o1.ts	Method	TBLASTX:Soybean
Start	315	End	1164
GI	none	Score	248
Exons	315..521, 334..651, 658..759, 865..1164		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60798	Strand	+
Start	1575	End	3415
Name	OJ000250_07.0208.C17.o1.tm	Method	TBLASTX:Maize
Start	580	End	1038
GI	none	Score	94
Exons	580..651, 643..768, 648..767, 745..879, 758..847, 771..926, 772..927, 1003..1038		

Seq. No.	29450	Seq. ID	OJ000250_07.0208.C17
Gene No.	60798	Strand	+
Start	1575	End	3415
Name	OJ000250_07.0208.C17.o2.gs	Method	GENSCAN
Start	1575	End	3415
GI	none	Score	.52
Exons	1575..1686, 1734..1928, 3086..3279, 3308..3415		

Seq. No.	29451	Seq. ID	OJ000250_07.0208.C18
Gene No.	60799	Strand	+
Start	469	End	1012
Name	OJ000250_07.0208.C18.o1.gs	Method	GENSCAN
Start	469	End	1012
GI	none	Score	.74
Exons	469..582, 932..1012		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60800	Strand	+
Start	4156	End	4500
Name	OJ000250_07.0208.C19.o1.gp	Method	AAT/GAP
Start	4156	End	4500
GI	uC-osrocyp002b09a1	Score	482
Exons	4156..4500		
GI Descrip.	'4768980/gb AAD29703.1 AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa]'		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60801	Strand	-
Start	1	End	5265
Name	OJ000250_07.0208.C19.o1.np	Method	AAT/NAP
Start	1	End	1254
GI	3645899	Score	854
Exons	1..1254		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60801	Strand	-
Start	1	End	5265

Name	OJ000250_07.0208.C19.o1.gs	Method	GENSCAN
Start	218	End	5265
GI	none	Score	.56
Exons	218..1247, 1566..3799, 4647..4969, 5183..5265		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60801	Strand	-
Start	1	End	5265
Name	OJ000250_07.0208.C19.o3.gp	Method	AAT/GAP
Start	4712	End	5222
GI	uC-osrocyp002b09b1	Score	991
Exons	4712..5222		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o3.ts	Method	TBLASTX:Soybean
Start	3	End	8752
GI	none	Score	39
Exons	3..92, 7..102, 114..425, 121..414, 8660..8752		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o3.tc	Method	TBLASTX:Cress
Start	6	End	383
GI	none	Score	65
Exons	6..101, 117..383, 186..383		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o3.tm	Method	TBLASTX:Maize
Start	9	End	8752
GI	none	Score	275
Exons	9..116, 98..199, 111..533, 112..441, 516..599, 536..568, 8660..8752		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o2.tw	Method	TBLASTX:Wheat
Start	267	End	830
GI	none	Score	131
Exons	267..554, 268..447, 282..557, 594..830, 612..824		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o2.ts	Method	TBLASTX:Soybean
Start	6767	End	7447
GI	none	Score	75
Exons	6767..7030, 6864..7025, 7058..7447, 7143..7253		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
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Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o3.np	Method	AAT/NAP
Start	6791	End	8753
GI	6630685	Score	1704
Exons	6791..8753		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o1.tm	Method	TBLASTX:Maize
Start	6809	End	7465
GI	none	Score	299
Exons	6809..7465, 6810..7457		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o2.tc	Method	TBLASTX:Cress
Start	6809	End	7468
GI	none	Score	70
Exons	6809..7021, 6903..7022, 7040..7174, 7286..7456, 7295..7468		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o3.tw	Method	TBLASTX:Wheat
Start	7232	End	7648
GI	none	Score	81
Exons	7232..7468, 7233..7457, 7496..7648		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o4.ts	Method	TBLASTX:Soybean
Start	7448	End	7676
GI	none	Score	70
Exons	7448..7672, 7509..7676		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o2.tm	Method	TBLASTX:Maize
Start	7709	End	8156
GI	none	Score	347
Exons	7709..8155, 7719..8156		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o1.ts	Method	TBLASTX:Soybean
Start	7818	End	8387
GI	5509260	Score	403
Exons	7818..8387, 7820..8347		
GI Descrip.	-		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o1.tw	Method	TBLASTX:Wheat
Start	7835	End	8302
GI	none	Score	155
Exons	7835..8179, 7836..8003, 7918..8004, 8034..8162, 8213..8302, 8219..8296		

Seq. No.	29452	Seq. ID	OJ000250_07.0208.C19
Gene No.	60802	Strand	-
Start	6791	End	8753
Name	OJ000250_07.0208.C19.o1.tc	Method	TBLASTX:Cress
Start	7937	End	8203
GI	none	Score	116
Exons	7937..8203, 7938..8198		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60803	Strand	-
Start	1	End	245
Name	OJ000250_07.0208.C20.o1.gp	Method	AAT/GAP
Start	1	End	245
GI	uC-osrocyp002b09b1	Score	458
Exons	1..245		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60804	Strand	-
Start	638	End	1173
Name	OJ000250_07.0208.C20.o1.gs	Method	GENSCAN
Start	638	End	1173
GI	none	Score	.52
Exons	638..729, 768..879, 1096..1173		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60805	Strand	-
Start	3415	End	4567
Name	OJ000250_07.0208.C20.o1.np	Method	AAT/NAP
Start	3415	End	4363
GI	6523101	Score	493
Exons	3415..4363		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60805	Strand	-
Start	3415	End	4567
Name	OJ000250_07.0208.C20.o2.gp	Method	AAT/GAP
Start	3712	End	4142
GI	LIB3434-007-P1-K1-C12	Score	777
Exons	3712..4142		
GI Descrip.	'5668813/gb AAD46039.1 AC007519_24 8.0e-27 (AC007519) Similar to gb_X77136 HSR203J protein from Nicotiana tabacum and is a member of the PF_00135 Carboxylesterase family. ESTs gb_Z25688 and gb_F14025 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60805	Strand	-
Start	3415	End	4567
Name	OJ000250_07.0208.C20.o3.gp	Method	AAT/GAP
Start	4189	End	4567
GI	none	Score	712
Exons	4189..4567		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60806	Strand	-
Start	5805	End	6721
Name	OJ000250_07.0208.C20.o2.tm	Method	TBLASTX:Maize
Start	3412	End	3643
GI	none	Score	133
Exons	3412..3522, 3413..3511, 3558..3620, 3559..3642, 3584..3643		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60806	Strand	-
Start	5805	End	6721
Name	OJ000250_07.0208.C20.o1.ts	Method	TBLASTX:Soybean
Start	3424	End	4252
GI	none	Score	80
Exons	3424..3522, 3589..3690, 3760..3963, 3955..4101, 4145..4252		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60806	Strand	-
Start	5805	End	6721
Name	OJ000250_07.0208.C20.o1.tm	Method	TBLASTX:Maize
Start	3766	End	4303
GI	none	Score	94
Exons	3766..3828, 3829..3954, 3869..3955, 3946..4053, 3947..4240, 4051..4104, 4145..4303		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60806	Strand	-
Start	5805	End	6721
Name	OJ000250_07.0208.C20.o1.tc	Method	TBLASTX:Cress
Start	3805	End	4351
GI	none	Score	43
Exons	3805..3951, 3961..4002, 4012..4104, 4031..4120, 4161..4343, 4184..4351		

Seq. No.	29453	Seq. ID	OJ000250_07.0208.C20
Gene No.	60806	Strand	-
Start	5805	End	6721
Name	OJ000250_07.0208.C20.o3.gs	Method	GENSCAN
Start	5805	End	6721
GI	none	Score	.54
Exons	5805..6049, 6520..6721		

Seq. No.	29454	Seq. ID	OJ000250_07.0208.C21
Gene No.	60807	Strand	-
Start	169	End	898
Name	OJ000250_07.0208.C21.o1.gs	Method	GENSCAN
Start	169	End	898
GI	none	Score	.61
Exons	169..466, 585..746, 791..898		

Seq. No.	29455	Seq. ID	OJ000250_07.0208.C22
Gene No.	60808	Strand	+
Start	16	End	244
Name	OJ000250_07.0208.C22.o1.gs	Method	GENSCAN
Start	16	End	244
GI	none	Score	.7
Exons	16..78, 89..244		

Seq. No.	29456	Seq. ID	OJ000250_07.0208.C24
Gene No.	60809	Strand	-
Start	71	End	276
Name	OJ000250_07.0208.C24.o1.ts	Method	TBLASTX:Soybean
Start	68	End	275
GI	none	Score	54
Exons	68..127, 81..137, 89..274, 153..275		

Seq. No.	29456	Seq. ID	OJ000250_07.0208.C24
Gene No.	60809	Strand	-
Start	71	End	276
Name	OJ000250_07.0208.C24.o1.np	Method	AAT/NAP
Start	71	End	276
GI	4006868	Score	168
Exons	71..276		
GI Descrip.	(Z99707) putative protein [Arabidopsis thaliana]		

Seq. No.	29457	Seq. ID	OJ000150_09.0218.C3
Gene No.	60810	Strand	+
Start	1	End	9300
Name	OJ000150_09.0218.C3.o1.gp	Method	AAT/GAP
Start	1	End	344
GI	4107133	Score	604
Exons	1..344		

Seq. No.	29457	Seq. ID	OJ000150_09.0218.C3
Gene No.	60810	Strand	+
Start	1	End	9300
Name	OJ000150_09.0218.C3.o1.np	Method	AAT/NAP
Start	1	End	4936
GI	2149640	Score	95
Exons	1..54, 2424..2525, 2978..3064, 3158..3189, 4856..4936		
GI Descrip.	(U91995) Argonaute protein [Arabidopsis thaliana] gi 5733867 gb AAD49755.1 AC007932_3 (AC007932) Identical to gb U91995 Argonaute protein from Arabidopsis thaliana. ESTs gb H76075, gb AA720232, gb N65911 and gb AA651494 come from this gene.		

Seq. No.	29457	Seq. ID	OJ000150_09.0218.C3
Gene No.	60810	Strand	+
Start	1	End	9300
Name	OJ000150_09.0218.C3.o1.tm	Method	TBLASTX:Maize
Start	10	End	280
GI	none	Score	363
Exons	10..276, 11..217, 12..275, 23..280, 46..276		

Seq. No.	29457	Seq. ID	OJ000150_09.0218.C3
Gene No.	60810	Strand	+

Start	1	End	9300
Name	OJ000150_09.0218.C3.o2.np	Method	AAT/NAP
Start	4515	End	8339
GI	5295959	Score	202
Exons	4515..4587, 4767..4981, 5965..6040, 8312..8339		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	29457	Seq. ID	OJ000150_09.0218.C3
Gene No.	60810	Strand	+
Start	1	End	9300
Name	OJ000150_09.0218.C3.o3.gs	Method	GENSCAN
Start	6727	End	9300
GI	none	Score	.72
Exons	6727..7018, 7439..7735, 7897..7927, 8000..8111, 8222..8576, 9128..9300		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60811	Strand	+
Start	1199	End	6888
Name	OJ000150_09.0218.C4.o1.gs	Method	GENSCAN
Start	1199	End	6888
GI	none	Score	.4
Exons	1199..1526, 2676..2774, 4470..4496, 5129..5411, 5479..6020, 6731..6888		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60812	Strand	-
Start	5279	End	8810
Name	OJ000150_09.0218.C4.o2.np	Method	AAT/NAP
Start	5279	End	8798
GI	5430752	Score	332
Exons	5279..5325, 7611..8168, 8208..8798		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60812	Strand	-
Start	5279	End	8810
Name	OJ000150_09.0218.C4.o1.gp	Method	AAT/GAP
Start	7299	End	7917
GI	65125_1.R1084	Score	1058
Exons	7299..7917		
GI Descrip.	'2781362 5.0e-12 (AC003113) F2401.18 [Arabidopsis thaliana] >gi_5454187_gb_AAD43602.1_AC005698_1 (AC005698) T3P18.1 [Arabidopsis thaliana]'		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60812	Strand	-
Start	5279	End	8810
Name	OJ000150_09.0218.C4.o2.gs	Method	GENSCAN
Start	7509	End	8810
GI	none	Score	.99
Exons	7509..8810		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60812	Strand	-
Start	5279	End	8810
Name	OJ000150_09.0218.C4.o1.np	Method	AAT/NAP

Start	7563	End	8636
GI	3687240	Score	350
Exons	7563..8636		
GI Descrip.	(AC005169) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o2.tm	Method	TBLASTX:Maize
Start	7591	End	7874
GI	none	Score	263
Exons	7591..7788, 7632..7817, 7633..7821, 7818..7874, 7819..7872		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o1.ts	Method	TBLASTX:Soybean
Start	7632	End	8444
GI	none	Score	80
Exons	7632..7793, 7636..7776, 7821..8030, 7828..8031, 7839..8009, 8382..8444		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o1.tc	Method	TBLASTX:Cress
Start	7704	End	8099
GI	none	Score	143
Exons	7704..7799, 7818..8030, 7837..8031, 8034..8099, 8037..8099		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o1.tm	Method	TBLASTX:Maize
Start	7875	End	8809
GI	none	Score	199
Exons	7875..8162, 7875..8213, 7876..8214, 8193..8261, 8194..8256, 8280..8408, 8319..8396, 8375..8497, 8379..8501, 8380..8505, 8387..8506, 8511..8669, 8511..8789, 8513..8686, 8771..8809		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o1.tw	Method	TBLASTX:Wheat
Start	7938	End	8168
GI	none	Score	76
Exons	7938..8168, 7944..8096		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o2.tc	Method	TBLASTX:Cress
Start	8388	End	8660
GI	none	Score	113
Exons	8388..8513, 8550..8660		

Seq. No.	29458	Seq. ID	OJ000150_09.0218.C4
Gene No.	60813	Strand	-
Start	10515	End	10676
Name	OJ000150_09.0218.C4.o3.gs	Method	GENSCAN
Start	10515	End	10676
GI	none	Score	.66
Exons	10515..10676		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60814	Strand	+
Start	1	End	489
Name	OJ000150_09.0218.C5.o1.np	Method	AAT/NAP
Start	1	End	489
GI	5042454	Score	163
Exons	1..168, 440..489		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60815	Strand	+
Start	1226	End	6383
Name	OJ000150_09.0218.C5.o2.np	Method	AAT/NAP
Start	1226	End	6383
GI	6498441	Score	6207
Exons	1226..2290, 2620..3083, 3147..3864, 4057..4439, 4611..6008, 6102..6383		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60816	Strand	+
Start	6545	End	7010
Name	OJ000150_09.0218.C5.o1.gp	Method	AAT/GAP
Start	6545	End	7010
GI	2428323	Score	812
Exons	6545..7010		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60817	Strand	+
Start	10798	End	11180
Name	OJ000150_09.0218.C5.o2.gp	Method	AAT/GAP
Start	10798	End	11180
GI	uC-osflcyp033a04b1	Score	668
Exons	10798..11180		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60818	Strand	+
Start	15498	End	21133
Name	OJ000150_09.0218.C5.o4.gs	Method	GENSCAN
Start	15498	End	17623
GI	none	Score	.68
Exons	15498..15554, 15932..16000, 16536..16585, 17407..17623		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60818	Strand	+
Start	15498	End	21133
Name	OJ000150_09.0218.C5.o4.np	Method	AAT/NAP
Start	15995	End	21133
GI	5852180	Score	427
Exons	15995..16064, 19483..19536, 20517..20635, 20687..21133		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60819	Strand	+
Start	23879	End	24775
Name	OJ000150_09.0218.C5.o6.gs	Method	GENSCAN
Start	23879	End	24775
GI	none	Score	.68
Exons	23879..23901, 24115..24213, 24463..24775		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60820	Strand	-
Start	7018	End	14319
Name	OJ000150_09.0218.C5.o2.gs	Method	GENSCAN
Start	7018	End	10838
GI	none	Score	.48
Exons	7018..7944, 8041..8090, 8503..8576, 8699..9259, 9304..9854, 10470..10517, 10701..10838		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60820	Strand	-
Start	7018	End	14319
Name	OJ000150_09.0218.C5.o3.np	Method	AAT/NAP
Start	7021	End	14319
GI	5803259	Score	4920
Exons	7021..7929, 11888..12667, 12752..12962, 13058..14319		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60820	Strand	-
Start	7018	End	14319
Name	OJ000150_09.0218.C5.o3.gs	Method	GENSCAN
Start	11843	End	14319
GI	none	Score	.99
Exons	11843..12962, 13058..14319		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60821	Strand	-
Start	18453	End	25379
Name	OJ000150_09.0218.C5.o5.gs	Method	GENSCAN
Start	18453	End	22807
GI	none	Score	.6
Exons	18453..18585, 20220..20280, 20576..20747, 20840..21079, 22685..22807		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60821	Strand	-
Start	18453	End	25379
Name	OJ000150_09.0218.C5.o3.gp	Method	AAT/GAP
Start	19385	End	19766



GI uC-osflcyp033a04b1 Score 639  
 Exons 19385..19766  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60821 Strand -  
 Start 18453 End 25379  
 Name OJ000150\_09.0218.C5.o4.gp Method AAT/GAP  
 Start 22183 End 25379  
 GI LIB3477-003-P1-K1-E9 Score 97  
 Exons 22183..22241, 25339..25379  
 GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60822 Strand -  
 Start 26131 End 29495  
 Name OJ000150\_09.0218.C5.o6.tw Method TBLASTX:Wheat  
 Start 1374 End 1767  
 GI none Score 57  
 Exons 1374..1421, 1375..1422, 1429..1527, 1434..1526, 1494..1733, 1510..1767

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60822 Strand -  
 Start 26131 End 29495  
 Name OJ000150\_09.0218.C5.o6.tm Method TBLASTX:Maize  
 Start 1380 End 1665  
 GI none Score 197  
 Exons 1380..1664, 1417..1665

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60822 Strand -  
 Start 26131 End 29495  
 Name OJ000150\_09.0218.C5.o4.tw Method TBLASTX:Wheat  
 Start 1775 End 4745  
 GI none Score 233  
 Exons 1775..1828, 4183..4203, 4311..4535, 4326..4535, 4376..4561, 4596..4745, 4605..4742, 4607..4744

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60822 Strand -  
 Start 26131 End 29495  
 Name OJ000150\_09.0218.C5.o2.tw Method TBLASTX:Wheat  
 Start 2504 End 3265  
 GI none Score 400  
 Exons 2504..2641, 2505..2963, 2699..2959, 3096..3260, 3096..3260, 3131..3265

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
 Gene No. 60822 Strand -  
 Start 26131 End 29495  
 Name OJ000150\_09.0218.C5.o1.tw Method TBLASTX:Wheat  
 Start 3271 End 3656  
 GI none Score 423

Exons 3271..3426, 3276..3656, 3294..3515, 3302..3649

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o2.ts	Method	TBLASTX:Soybean
Start	3315	End	3686
GI	none	Score	279
Exons	3315..3686, 3332..3475		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o4.tm	Method	TBLASTX:Maize
Start	3380	End	3770
GI	none	Score	235
Exons	3380..3637, 3384..3638, 3657..3770, 3701..3739		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o8.tw	Method	TBLASTX:Wheat
Start	4748	End	5060
GI	none	Score	177
Exons	4748..4846, 4800..5060		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o1.tm	Method	TBLASTX:Maize
Start	5253	End	5564
GI	none	Score	356
Exons	5253..5564, 5282..5563		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o3.tw	Method	TBLASTX:Wheat
Start	5390	End	5771
GI	none	Score	368
Exons	5390..5446, 5391..5771, 5492..5740		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o5.tw	Method	TBLASTX:Wheat
Start	5772	End	6374
GI	none	Score	262
Exons	5772..6062, 5772..6188, 5773..6063, 5912..6082, 6144..6218, 6248..6370, 6249..6374		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o7.lm	Method	TBLASTX:Maize
Start	6243	End	6398
GI	none	Score	192

Exons 6243..6398, 6248..6382

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
Gene No. 60822 Strand -  
Start 26131 End 29495  
Name OJ000150\_09.0218.C5.o5.np Method AAT/NAP  
Start 26131 End 29495  
GI 2130082 Score 1053  
Exons 26131..26159, 27150..27515, 27642..29495  
GI Descrip. protein kinase Xa21 (EC 2.7.1.-) - rice gi|1122443 (U37133)  
receptor kinase-like protein [Oryza sativa] gi|2586085 (U72723)  
receptor kinase-like protein [Oryza longistaminata]  
gi|1586408|prf|2203451A receptor kinase-like protein [Oryza  
sativa]

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
Gene No. 60822 Strand -  
Start 26131 End 29495  
Name OJ000150\_09.0218.C5.o7.gs Method GENSCAN  
Start 27127 End 29360  
GI none Score .65  
Exons 27127..27515, 27642..28593, 29290..29360

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
Gene No. 60822 Strand -  
Start 26131 End 29495  
Name OJ000150\_09.0218.C5.o2.tm Method TBLASTX:Maize  
Start 27160 End 27691  
GI none Score 87  
Exons 27160..27300, 27176..27274, 27183..27293, 27307..27516,  
27316..27513, 27368..27529, 27632..27691

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
Gene No. 60822 Strand -  
Start 26131 End 29495  
Name OJ000150\_09.0218.C5.o3.ts Method TBLASTX:Soybean  
Start 27240 End 28092  
GI none Score 82  
Exons 27240..27266, 27334..27516, 27383..27517, 27464..27529,  
27643..27939, 27712..27876, 27722..27895, 28003..28092

Seq. No. 29459 Seq. ID OJ000150\_09.0218.C5  
Gene No. 60822 Strand -  
Start 26131 End 29495  
Name OJ000150\_09.0218.C5.o1.tc Method TBLASTX:Cress  
Start 27421 End 29487  
GI none Score 75  
Exons 27421..27516, 27458..27529, 27643..27690, 27694..27894,  
27728..27895, 27991..28092, 28318..28392, 28432..28983,  
28433..28660, 28501..28770, 28504..29007, 28504..28842,  
28504..28980, 28504..28671, 28504..28974, 28505..28810,  
28582..28815, 28634..28747, 28637..28804, 28709..28879,  
28717..28986, 28720..28983, 28720..28989, 28720..28989,  
28721..28963, 28775..28984, 28793..28957, 28978..29079,  
28979..29103, 28987..29076, 28990..29076, 28993..29076,  
28994..29074, 28996..29064, 29012..29038, 29158..29301,  
29161..29319, 29305..29487

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o3.tm	Method	TBLASTX:Maize
Start	27700	End	27945
GI	none	Score	237
Exons	27700..27939, 27701..27937, 27709..27945, 27710..27940		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o1.ts	Method	TBLASTX:Soybean
Start	28318	End	29301
GI	none	Score	119
Exons	28318..28392, 28430..28747, 28435..28983, 28499..28834, 28501..28671, 28501..28671, 28504..28980, 28504..28920, 28505..28741, 28579..28989, 28643..28825, 28712..28975, 28720..28995, 28720..28983, 28721..28948, 28793..28978, 28933..29061, 28978..29079, 28987..29076, 28994..29050, 29005..29079, 29158..29301, 29161..29301, 29167..29277		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o5.tm	Method	TBLASTX:Maize
Start	28501	End	29292
GI	none	Score	99
Exons	28501..28770, 28504..28980, 28504..28974, 28549..29007, 28550..28879, 28577..28672, 28577..28771, 28597..28983, 28666..28962, 28670..28807, 28703..28813, 28712..28888, 28775..28816, 28793..28963, 28810..28968, 28933..29076, 28978..29076, 28990..29076, 28990..29076, 28996..29076, 28999..29067, 29000..29053, 29161..29292, 29161..29205, 29167..29277		

Seq. No.	29459	Seq. ID	OJ000150_09.0218.C5
Gene No.	60822	Strand	-
Start	26131	End	29495
Name	OJ000150_09.0218.C5.o7.tw	Method	TBLASTX:Wheat
Start	28504	End	29379
GI	none	Score	105
Exons	28504..28665, 28720..28902, 28720..28821, 28739..29089, 28741..29094, 28810..28983, 28978..29103, 29158..29379, 29194..29319		

Seq. No.	29460	Seq. ID	OJ000150_09.0218.C6
Gene No.	60823	Strand	+
Start	784	End	1186
Name	OJ000150_09.0218.C6.o1.gs	Method	GENSCAN
Start	784	End	1186
GI	none	Score	.67
Exons	784..1186		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60824	Strand	+
Start	6041	End	8720

Name	OJ000150_09.0218.C7.o3.np	Method	AAT/NAP
Start	6041	End	8720
GI	4680203	Score	1083
Exons	6041..6064, 7302..8720		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60824	Strand	+
Start	6041	End	8720
Name	OJ000150_09.0218.C7.o2.gs	Method	GENSCAN
Start	7300	End	8568
GI	none	Score	.42
Exons	7300..8194, 8467..8568		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o1.gs	Method	GENSCAN
Start	166	End	5944
GI	none	Score	.64
Exons	166..1399, 1509..1673, 2350..3050, 3143..4664, 5320..5436, 5454..5944		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o1.np	Method	AAT/NAP
Start	187	End	6591
GI	4544372	Score	588
Exons	187..1374, 6554..6591		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o3.ts	Method	TBLASTX:Soybean
Start	193	End	426
GI	none	Score	42
Exons	193..426, 194..220, 296..424		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o3.tw	Method	TBLASTX:Wheat
Start	202	End	618
GI	none	Score	59
Exons	202..618, 350..601		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o2.ts	Method	TBLASTX:Soybean
Start	766	End	1161
GI	none	Score	90
Exons	766..1161, 884..1060, 889..1128		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o4.tw	Method	TBLASTX:Wheat
Start	934	End	1326
GI	none	Score	114
Exons	934..990, 1015..1128, 1165..1326		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60825	Strand	-
Start	166	End	6591
Name	OJ000150_09.0218.C7.o2.tm	Method	TBLASTX:Maize
Start	1015	End	1368
GI	none	Score	217
Exons	1015..1368		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	-
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o2.tw	Method	TBLASTX:Wheat
Start	7666	End	8227
GI	none	Score	244
Exons	7666..8049, 7755..7799, 7890..8066, 8085..8210, 8120..8227		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	-
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o1.ts	Method	TBLASTX:Soybean
Start	7738	End	8075
GI	none	Score	47
Exons	7738..7785, 7743..7787, 7787..7948, 7791..8075, 7792..8049		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	-
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o4.ts	Method	TBLASTX:Soybean
Start	8082	End	8369
GI	none	Score	225
Exons	8082..8369, 8114..8368		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	-
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o1.tc	Method	TBLASTX:Cress
Start	8100	End	8450
GI	none	Score	314
Exons	8100..8450, 8108..8257, 8297..8449		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	-
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o1.tw	Method	TBLASTX:Wheat
Start	8238	End	8704
GI	none	Score	60
Exons	8238..8294, 8246..8302, 8282..8389, 8292..8396, 8403..8498, 8404..8499, 8405..8500, 8543..8704, 8544..8699		

Seq. No.	29461	Seq. ID	OJ000150_09.0218.C7
Gene No.	60826	Strand	
Start	7666	End	8710
Name	OJ000150_09.0218.C7.o1.tm	Method	TBLASTX:Maize
Start	8294	End	8710
GI	none	Score	223
Exons	8294..8536, 8295..8537, 8519..8710, 8544..8708		
Seq. No.	29462	Seq. ID	OJ000150_09.0218.C12
Gene No.	60827	Strand	+
Start	1	End	519
Name	OJ000150_09.0218.C12.o1.np	Method	AAT/NAP
Start	1	End	519
GI	2879805	Score	130
Exons	1..519		
GI Descrip.	(AL021813) hypothetical protein; extensin-like; with SH3 Src homology domain [Schizosaccharomyces pombe]		
Seq. No.	29462	Seq. ID	OJ000150_09.0218.C12
Gene No.	60828	Strand	-
Start	335	End	470
Name	OJ000150_09.0218.C12.o1.gs	Method	GENSCAN
Start	335	End	470
GI	none	Score	.6
Exons	335..470		
Seq. No.	29463	Seq. ID	OJ000150_09.0218.C13
Gene No.	60829	Strand	+
Start	211	End	337
Name	OJ000150_09.0218.C13.o1.gs	Method	GENSCAN
Start	211	End	337
GI	none	Score	.67
Exons	211..337		
Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.np	Method	AAT/NAP
Start	1	End	2475
GI	2586083	Score	916
Exons	1..566, 1255..2068, 2138..2475		
GI Descrip.	(U72725) receptor kinase-like protein [Oryza longistaminata]		
Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.gs	Method	GENSCAN
Start	23	End	2454
GI	none	Score	.45
Exons	23..544, 621..902, 1545..2454		
Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.tc	Method	TBLASTX:Cress
Start	51	End	2343
GI	none	Score	66

Exons 51..575, 51..398, 52..255, 120..566, 123..416, 123..566,  
123..572, 123..470, 126..218, 186..491, 190..567, 195..584,  
196..387, 246..584, 321..566, 405..563, 498..566, 529..687,  
610..669, 727..903, 736..915, 736..912, 736..903, 736..873,  
736..903, 739..912, 742..912, 775..915, 787..912, 1246..1362,  
1471..1674, 1480..1674, 1489..1794, 1489..1614, 1498..1677,  
1498..1683, 1498..1650, 1501..1683, 1504..1791, 1534..1677,  
1651..1791, 1690..2100, 1690..1941, 1693..2250, 1693..1938,  
1702..2109, 1730..1864, 1756..2109, 1846..2118, 1900..2118,  
2131..2271, 2131..2241, 2131..2271, 2134..2343

Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.ts	Method	TBLASTX:Soybean
Start	51	End	2253
GI	none	Score	66

Exons 51..218, 51..314, 51..506, 114..248, 120..386, 123..566,  
123..566, 123..572, 123..530, 124..228, 192..572, 193..360,  
196..429, 225..344, 261..572, 312..566, 339..566, 339..575,  
340..591, 441..560, 607..696, 619..678, 628..696, 736..924,  
736..912, 736..921, 736..903, 739..849, 742..903, 793..912,  
1246..1365, 1246..1356, 1246..1362, 1247..1423, 1369..1455,  
1369..1437, 1372..1449, 1480..1683, 1489..1791, 1489..1683,  
1498..1686, 1498..1680, 1513..1578, 1585..1674, 1681..1788,  
1687..1932, 1690..2085, 1693..1941, 1702..2124, 1775..1891,  
1829..2059, 1843..2118, 1843..2133, 1846..1929, 2128..2250,  
2128..2241, 2128..2235, 2131..2253, 2131..2250, 2131..2241

Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.tm	Method	TBLASTX:Maize
Start	52	End	2346
GI	none	Score	59

Exons 52..147, 123..254, 195..326, 330..554, 339..449, 396..569,  
414..530, 486..572, 486..584, 610..705, 610..699, 610..669,  
787..912, 793..903, 1369..1458, 1549..1677, 1555..1665,  
1846..2037, 1903..2322, 1910..2293, 1918..2310, 2311..2346

Seq. No.	29464	Seq. ID	OJ000150_09.0218.C15
Gene No.	60830	Strand	-
Start	1	End	2475
Name	OJ000150_09.0218.C15.o1.tw	Method	TBLASTX:Wheat
Start	210	End	2271
GI	none	Score	108

Exons 210..398, 565..912, 566..877, 587..655, 1243..1362, 1246..1413,  
1313..1405, 1316..1468, 1318..1491, 1372..1458, 1477..1725,  
1648..1767, 1840..1941, 2131..2214, 2146..2271

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.np	Method	AAT/NAP
Start	1	End	862
GI	4234852	Score	1122

Exons 1..862



GI Descrip. (AF082133) gag-pol polyprotein [Zea mays]

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o3.tw	Method	TBLASTX:Wheat
Start	2	End	256
GI	none	Score	223
Exons	2..256, 4..252		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o2.tm	Method	TBLASTX:Maize
Start	56	End	352
GI	none	Score	267
Exons	56..352, 196..351		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.gs	Method	GENSCAN
Start	92	End	5125
GI	none	Score	.75
Exons	92..711, 1152..1411, 2623..3046, 3208..5125		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o2.ts	Method	TBLASTX:Soybean
Start	242	End	808
GI	none	Score	131
Exons	242..424, 433..534, 437..628, 617..808		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o4.tm	Method	TBLASTX:Maize
Start	365	End	823
GI	none	Score	55
Exons	365..424, 407..583, 632..823		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o2.tw	Method	TBLASTX:Wheat
Start	408	End	811
GI	none	Score	51
Exons	408..521, 412..645, 416..811		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o2.np	Method	AAT/NAP
Start	2631	End	5149
GI	4234852	Score	2250
Exons	2631..2791, 2834..5149		

GI Descrip. (AF082133) gag-pol polyprotein [Zea mays]

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.tm	Method	TBLASTX:Maize
Start	2723	End	3733
GI	none	Score	462
Exons	2723..3202, 2724..3203, 3048..3203, 3185..3331, 3208..3300, 3341..3472, 3412..3453, 3577..3627, 3577..3669, 3668..3733		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o4.tw	Method	TBLASTX:Wheat
Start	3653	End	4090
GI	none	Score	110
Exons	3653..3850, 3920..4090		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.ts	Method	TBLASTX:Soybean
Start	3947	End	4333
GI	none	Score	345
Exons	3947..4333, 3958..4164		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.tw	Method	TBLASTX:Wheat
Start	4109	End	4771
GI	none	Score	257
Exons	4109..4348, 4123..4347, 4388..4693, 4411..4671, 4672..4746, 4673..4771		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o3.tm	Method	TBLASTX:Maize
Start	4124	End	4582
GI	none	Score	130
Exons	4124..4348, 4397..4582, 4399..4560		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o1.tc	Method	TBLASTX:Cress
Start	4388	End	4768
GI	none	Score	123
Exons	4388..4588, 4601..4768		

Seq. No.	29465	Seq. ID	OJ000150_09.0218.C16
Gene No.	60831	Strand	+
Start	1	End	5149
Name	OJ000150_09.0218.C16.o3.ts	Method	TBLASTX:Soybean
Start	4388	End	4774

GI none Score 186  
Exons 4388..4597, 4390..4569, 4601..4774

Seq. No. 29466 Seq. ID OJ000150\_09.0218.C17  
Gene No. 60832 Strand +  
Start 1 End 527  
Name OJ000150\_09.0218.C17.o1.np Method AAT/NAP  
Start 1 End 527  
GI 1345502 Score 377  
Exons 1..527  
GI Descrip. (X57297) TNP2 [Antirrhinum majus]

Seq. No. 29467 Seq. ID OJ000150\_09.0218.C19  
Gene No. 60833 Strand +  
Start 1481 End 5531  
Name OJ000150\_09.0218.C19.o2.np Method AAT/NAP  
Start 1481 End 5531  
GI 4680183 Score 123  
Exons 1481..1525, 5392..5531  
GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 29467 Seq. ID OJ000150\_09.0218.C19  
Gene No. 60834 Strand -  
Start 1 End 5409  
Name OJ000150\_09.0218.C19.o1.np Method AAT/NAP  
Start 1 End 5409  
GI 6721561 Score 84  
Exons 1..80, 5303..5409  
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 29467 Seq. ID OJ000150\_09.0218.C19  
Gene No. 60834 Strand -  
Start 1 End 5409  
Name OJ000150\_09.0218.C19.o1.gp Method AAT/GAP  
Start 1856 End 2421  
GI 4879016 Score 877  
Exons 1856..2421  
GI Descrip. 6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence

Seq. No. 29467 Seq. ID OJ000150\_09.0218.C19  
Gene No. 60834 Strand -  
Start 1 End 5409  
Name OJ000150\_09.0218.C19.o2.gp Method AAT/GAP  
Start 4243 End 4811  
GI uC-osflcyp088b12b1 Score 156  
Exons 4243..4264, 4697..4811  
GI Descrip. '5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No. 29468 Seq. ID OJ000150\_09.0218.C20  
Gene No. 60835 Strand +

Start	1	End	8404
Name	OJ000150_09.0218.C20.o2.np	Method	AAT/NAP
Start	1	End	2750
GI	4680183	Score	125
Exons	1..73, 2563..2750		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60835	Strand	+
Start	1	End	8404
Name	OJ000150_09.0218.C20.o1.gs	Method	GENSCAN
Start	84	End	365
GI	none	Score	.97
Exons	84..365		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60835	Strand	+
Start	1	End	8404
Name	OJ000150_09.0218.C20.o4.np	Method	AAT/NAP
Start	785	End	8404
GI	5042447	Score	54
Exons	785..844, 3501..3620, 7584..7648, 8287..8404		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60835	Strand	+
Start	1	End	8404
Name	OJ000150_09.0218.C20.o2.gs	Method	GENSCAN
Start	1338	End	2498
GI	none	Score	.84
Exons	1338..1453, 2393..2498		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60835	Strand	+
Start	1	End	8404
Name	OJ000150_09.0218.C20.o1.gp	Method	AAT/GAP
Start	4862	End	5246
GI	uC-osflcyp033a04b1	Score	678
Exons	4862..5246		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60835	Strand	+
Start	1	End	8404
Name	OJ000150_09.0218.C20.o5.gs	Method	GENSCAN
Start	6627	End	7943
GI	none	Score	.96
Exons	6627..7943		

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60836	Strand	-
Start	1	End	5159
Name	OJ000150_09.0218.C20.o3.np	Method	AAT/NAP
Start	1	End	5159
GI	5852180	Score	683
Exons	1..20, 2758..2816, 3521..3933, 3985..4102, 5095..5159		

GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60836	Strand	-
Start	1	End	5159
Name	OJ000150_09.0218.C20.o1.np	Method	AAT/NAP
Start	566	End	2628
GI	6721561	Score	81

Exons 566..594, 2522..2628

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gil6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60836	Strand	-
Start	1	End	5159
Name	OJ000150_09.0218.C20.o3.gs	Method	GENSCAN
Start	3397	End	3867
GI	none	Score	.99

Exons 3397..3867

Seq. No.	29468	Seq. ID	OJ000150_09.0218.C20
Gene No.	60836	Strand	-
Start	1	End	5159
Name	OJ000150_09.0218.C20.o4.gs	Method	GENSCAN
Start	4285	End	4902
GI	none	Score	.94

Exons 4285..4385, 4764..4902

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60837	Strand	+
Start	998	End	4698
Name	OJ000150_09.0218.C21.o1.gs	Method	GENSCAN
Start	998	End	4698
GI	none	Score	.49

Exons 998..1620, 2674..2902, 3117..3515, 3680..4446, 4524..4698

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60838	Strand	+
Start	7957	End	8281
Name	OJ000150_09.0218.C21.o1.gp	Method	AAT/GAP
Start	7957	End	8281
GI	69014_1.R1084	Score	585

Exons 7957..8281

GI Descrip. '4680178/gb|AF111709.1|AF111709 1.0e-108 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60839	Strand	-
Start	6448	End	8834
Name	OJ000150_09.0218.C21.o2.gs	Method	GENSCAN
Start	6448	End	8834
GI	none	Score	.79

Exons 6448..6494, 7616..7666, 7961..8234, 8613..8715, 8782..8834

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60840	Strand	-
Start	10428	End	10487
Name	OJ000150_09.0218.C21.o2.gp	Method	AAT/GAP
Start	10428	End	10487
GI	2315_6.R1084	Score	69
Exons	10428..10487		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 4.0e-38 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60841	Strand	-
Start	14309	End	14542
Name	OJ000150_09.0218.C21.o3.gp	Method	AAT/GAP
Start	11793	End	12055
GI	2315_5.R1084	Score	343
Exons	11793..12055		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29469	Seq. ID	OJ000150_09.0218.C21
Gene No.	60841	Strand	-
Start	14309	End	14542
Name	OJ000150_09.0218.C21.o3.gs	Method	GENSCAN
Start	14309	End	14542
GI	none	Score	.9
Exons	14309..14542		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60842	Strand	+
Start	808	End	1383
Name	OJ000150_09.0218.C22.o1.gs	Method	GENSCAN
Start	808	End	1383
GI	none	Score	.56
Exons	808..882, 1153..1383		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60843	Strand	+
Start	2493	End	8096
Name	OJ000150_09.0218.C22.o2.gs	Method	GENSCAN
Start	2493	End	8096
GI	none	Score	.42
Exons	2493..2559, 3550..3571, 4009..4234, 5093..5165, 5293..5514, 5638..5703, 7651..8096		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60844	Strand	+
Start	11062	End	11813
Name	OJ000150_09.0218.C22.o3.gs	Method	GENSCAN
Start	11062	End	11813
GI	none	Score	.8
Exons	11062..11103, 11679..11813		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240

Name	OJ000150_09.0218.C22.o1.np	Method	AAT/NAP
Start	10444	End	13240
GI	2586081	Score	732
Exons	10444..10490, 11882..13240		
GI Descrip.	(U72725) receptor kinase-like protein [Oryza longistaminata]		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240
Name	OJ000150_09.0218.C22.o1.tc	Method	TBLASTX:Cress
Start	11879	End	13030
GI	none	Score	70
Exons	11879..12046, 11879..12010, 11882..12154, 11882..12145, 11882..12082, 11882..12121, 11882..12145, 11969..12229, 12038..12151, 12134..12241, 12149..12238, 12152..12238, 12152..12223, 12320..12394, 12320..12457, 12320..12412, 12323..12466, 12323..12463, 12329..12481, 12332..12388, 12335..12457, 12347..12481, 12398..12565, 12473..12562, 12554..12844, 12555..12716, 12626..12706, 12626..12715, 12647..12829, 12770..13030, 12770..12865, 12770..12841, 12827..13021, 12911..13030, 12911..13024, 12923..13021		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240
Name	OJ000150_09.0218.C22.o1.ts	Method	TBLASTX:Soybean
Start	11879	End	13033
GI	none	Score	67
Exons	11879..12145, 11882..12220, 11882..12145, 11882..12235, 11882..12145, 11882..12145, 11882..12145, 11927..12157, 11972..12148, 12144..12221, 12152..12238, 12155..12238, 12173..12238, 12173..12238, 12320..12565, 12326..12463, 12326..12445, 12335..12466, 12497..12565, 12546..12809, 12626..12880, 12626..12712, 12696..12860, 12770..12907, 12770..12892, 12770..12913, 12908..13024, 12908..13021, 12908..13021, 12909..13004, 12911..13033, 12911..13030, 12911..13021, 12911..13000		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240
Name	OJ000150_09.0218.C22.o1.tm	Method	TBLASTX:Maize
Start	11879	End	13100
GI	none	Score	83
Exons	11879..12091, 11939..12145, 12143..12241, 12323..12466, 12325..12378, 12329..12487, 12683..13099, 12684..12791, 12816..13100		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240
Name	OJ000150_09.0218.C22.o1.tw	Method	TBLASTX:Wheat
Start	11903	End	12907
GI	none	Score	86
Exons	11903..12256, 11919..12251, 11972..12145, 12140..12265, 12320..12541, 12770..12907		

Seq. No.	29470	Seq. ID	OJ000150_09.0218.C22
Gene No.	60845	Strand	-
Start	10444	End	13240
Name	OJ000150_09.0218.C22.o2.tw	Method	TBLASTX:Wheat
Start	12555	End	13169
GI	none	Score	59
Exons	12555..12677, 12908..13000, 12992..13168, 12993..13169		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-
Start	1	End	803
Name	OJ000150_09.0218.C23.o1.np	Method	AAT/NAP
Start	1	End	803
GI	2130082	Score	446
Exons	1..291, 370..803		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) - rice gi 1122443 (U37133) receptor kinase-like protein [Oryza sativa] gi 2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] gi 1586408 prf  2203451A receptor kinase-like protein [Oryza sativa]		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-
Start	1	End	803
Name	OJ000150_09.0218.C23.o2.tm	Method	TBLASTX:Maize
Start	8	End	419
GI	none	Score	54
Exons	8..67, 12..68, 95..292, 96..272, 97..366, 97..300, 369..410, 377..415, 378..419		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-
Start	1	End	803
Name	OJ000150_09.0218.C23.o1.gs	Method	GENSCAN
Start	16	End	747
GI	none	Score	.99
Exons	16..291, 370..747		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-
Start	1	End	803
Name	OJ000150_09.0218.C23.o1.ts	Method	TBLASTX:Soybean
Start	110	End	802
GI	none	Score	65
Exons	110..292, 198..293, 443..625, 462..611, 659..802, 669..800		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-
Start	1	End	803
Name	OJ000150_09.0218.C23.o1.tc	Method	TBLASTX:Cress
Start	174	End	802
GI	none	Score	69
Exons	174..293, 194..292, 458..625, 462..605, 635..715, 636..716, 728..802		

Seq. No.	29471	Seq. ID	OJ000150_09.0218.C23
Gene No.	60846	Strand	-



Start	1	End	803
Name	OJ000150_09.0218.C23.o1.tm	Method	TBLASTX:Maize
Start	435	End	796
GI	none	Score	297
Exons	435..575, 437..793, 438..794, 445..795, 445..795, 653..796		

Seq. No.	29472	Seq. ID	OJ000150_09.0218.C24
Gene No.	60847	Strand	+
Start	393	End	592
Name	OJ000150_09.0218.C24.o1.gs	Method	GENSCAN
Start	393	End	541
GI	none	Score	.5
Exons	393..541		

Seq. No.	29472	Seq. ID	OJ000150_09.0218.C24
Gene No.	60847	Strand	+
Start	393	End	592
Name	OJ000150_09.0218.C24.o1.np	Method	AAT/NAP
Start	393	End	592
GI	6016874	Score	169
Exons	393..471, 554..592		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60848	Strand	+
Start	3372	End	6292
Name	OJ000150_09.0218.C25.o1.np	Method	AAT/NAP
Start	3372	End	6292
GI	6016874	Score	2217
Exons	3372..3450, 3534..3671, 3736..3968, 4359..4518, 4912..5091, 5209..5549, 6029..6292		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60848	Strand	+
Start	3372	End	6292
Name	OJ000150_09.0218.C25.o2.gs	Method	GENSCAN
Start	3372	End	5552
GI	none	Score	.65
Exons	3372..3450, 3534..3671, 3736..3824, 4359..4518, 5092..5552		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60848	Strand	+
Start	3372	End	6292
Name	OJ000150_09.0218.C25.o2.gp	Method	AAT/GAP
Start	4061	End	4569
GI	uC-osflcyp110c07b1	Score	950
Exons	4061..4569		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
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Gene No.	60849	Strand	-
Start	443	End	2364
Name	OJ000150_09.0218.C25.o1.gs	Method	GENSCAN
Start	443	End	2364
GI	none	Score	.8
Exons	443..574, 1268..1686, 1995..2364		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o3.ts	Method	TBLASTX:Soybean
Start	1993	End	2196
GI	none	Score	69
Exons	1993..2196, 1994..2101, 2098..2196		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o4.tm	Method	TBLASTX:Maize
Start	3720	End	4166
GI	none	Score	69
Exons	3720..3806, 3792..4070, 3815..4000, 4071..4133, 4128..4166		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o6.tm	Method	TBLASTX:Maize
Start	4260	End	4574
GI	none	Score	53
Exons	4260..4334, 4347..4574, 4355..4573		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o7.tm	Method	TBLASTX:Maize
Start	4779	End	5131
GI	none	Score	240
Exons	4779..5060, 4790..5131		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o5.tm	Method	TBLASTX:Maize
Start	5243	End	5486
GI	none	Score	282
Exons	5243..5401, 5253..5486		
Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o3.gs	Method	GENSCAN
Start	6051	End	19105
GI	none	Score	.4
Exons	6051..6194, 7102..7340, 7451..8827, 9572..9924, 10818..11085, 12077..12352, 12439..12816, 13057..13192, 13583..13887, 14197..14358, 14572..15069, 15712..15777, 17777..17854, 17924..18635, 18740..18839, 19068..19105		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o2.np	Method	AAT/NAP
Start	6961	End	15013
GI	6522541	Score	1572
Exons	6961..7340, 7451..9874, 14860..15013		
GI Descrip.	(AL132955) receptor-kinase like protein [Arabidopsis thaliana]		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o3.tm	Method	TBLASTX:Maize
Start	6997	End	16598
GI	none	Score	57
Exons	6997..7119, 7001..7117, 7132..7341, 7133..7360, 7145..7342, 7150..7359, 7452..7496, 7453..7494, 11997..12128, 12008..12130, 12013..12129, 12018..12134, 12145..12354, 12156..12374, 12159..12350, 12438..12479, 12440..12484, 12441..12488, 16271..16381, 16275..16373, 16368..16400, 16422..16487, 16487..16597, 16488..16598		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o1.ts	Method	TBLASTX:Soybean
Start	7159	End	16597
GI	none	Score	76
Exons	7159..7341, 7208..7342, 7527..7937, 7543..7692, 7551..7706, 7750..7938, 7953..8045, 7954..8004, 12171..12353, 12220..12354, 12488..12694, 12531..12680, 12728..12925, 12738..12926, 12941..13033, 16487..16597, 16488..16589		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o1.tc	Method	TBLASTX:Cress
Start	7246	End	18380
GI	none	Score	67
Exons	7246..7341, 7452..7496, 7522..7689, 7524..7712, 7737..7784, 7839..7895, 7944..8045, 8250..8336, 8262..8624, 8313..8624, 8313..8624, 8385..8894, 8385..8579, 8385..8711, 8385..8453, 8385..8894, 8460..8894, 8532..8807, 8583..8894, 8593..8829, 8674..8937, 8676..8894, 8676..8855, 8676..8894, 8746..8916, 8769..8894, 8946..9035, 8946..9059, 8946..9029, 8949..9017, 8950..8991, 8952..9002, 9066..9251, 9069..9236, 9069..9251, 9069..9251, 9069..9245, 9258..9449, 9258..9395, 9258..9401, 9264..9500, 9273..9809, 9273..9434, 9276..9671, 9348..9503, 9420..9701, 9549..9704, 9552..9698, 9552..9704, 9558..9704, 9558..9629, 9633..9821, 9690..9812, 9696..9824, 9699..9821, 9702..9821, 9702..9815, 9702..9821, 9702..9821, 12258..12380, 12533..12718, 12534..12677, 12815..12925, 12932..13033, 13238..13327, 13298..13711, 13301..13948, 13301..13861, 13304..13921, 13433..13900, 13442..13930, 13445..13699, 13448..13927, 13505..13927, 13512..13817, 13568..13924, 13590..13817, 13700..13924, 13931..14002, 13931..14017,		

13937..14017, 13952..14020, 14048..14206, 14054..14209,  
14057..14209, 14057..14209, 14057..14254, 14057..14233,  
14096..14209, 14103..14210, 14249..14683, 14255..14674,  
14318..14794, 14318..14683, 14318..14512, 14321..14689,  
14322..14783, 14330..14689, 14330..14674, 14330..14656,  
14331..14666, 14403..14630, 14405..14683, 14687..14812,  
14687..14797, 14687..14809, 17041..17217, 17049..17180,  
17073..17480, 17076..17489, 17079..17423, 17079..17180,  
17082..17351, 17085..17291, 17097..17483, 17097..17180,  
17097..17288, 17135..17176, 17148..17504, 17152..17337,  
17241..17504, 17241..17489, 17241..17483, 17244..17507,  
17281..17409, 17314..17478, 17454..17504, 17508..17630,  
17622..17822, 17628..17822, 17628..17816, 17628..17744,  
17634..17804, 17637..17813, 17637..17822, 17637..17822,  
17637..17816, 17656..17802, 17676..17792, 17705..17806,  
17826..18023, 17898..18272, 17898..18095, 17898..18266,  
17904..18266, 17904..18272, 17904..18176, 17904..18179,  
17904..18272, 17907..18257, 17910..18239, 17914..18213,  
17914..18213, 17916..18257, 17923..18069, 17964..18266,  
17980..18219, 17988..18266, 18046..18177, 18129..18194,  
18129..18272, 18201..18380, 18270..18380, 18270..18380,  
18270..18380, 18270..18380

Seq. No. 29473 Seq. ID OJ000150\_09.0218.C25  
Gene No. 60850 Strand -  
Start 6051 End 19105  
Name OJ000150\_09.0218.C25.o2.tw Method TBLASTX:Wheat  
Start 7252 End 16609  
GI none Score 59  
Exons 7252..7341, 7253..7342, 7533..7718, 7534..7626, 12264..12428,  
12265..12324, 12512..12694, 12522..12614, 12704..12748,  
16532..16609

Seq. No. 29473 Seq. ID OJ000150\_09.0218.C25  
Gene No. 60850 Strand -  
Start 6051 End 19105  
Name OJ000150\_09.0218.C25.o1.tm Method TBLASTX:Maize  
Start 7516 End 12865  
GI none Score 299  
Exons 7516..7875, 7518..7874, 7700..7876, 12504..12644, 12506..12862,  
12507..12863, 12514..12864, 12514..12864, 12722..12865

Seq. No. 29473 Seq. ID OJ000150\_09.0218.C25  
Gene No. 60850 Strand -  
Start 6051 End 19105  
Name OJ000150\_09.0218.C25.o8.tm Method TBLASTX:Maize  
Start 8142 End 16978  
GI none Score 141  
Exons 8142..8336, 8143..8325, 8211..8336, 13130..13327, 13134..13313,  
13185..13343, 13187..13348, 13359..13427, 13359..13421,  
13360..13428, 13360..13422, 16825..16857, 16881..16934,  
16882..16950, 16954..16977, 16955..16978

Seq. No. 29473 Seq. ID OJ000150\_09.0218.C25  
Gene No. 60850 Strand -  
Start 6051 End 19105  
Name OJ000150\_09.0218.C25.o2.ts Method TBLASTX:Soybean

Start	8310	End	18410
GI	none	Score	66
Exons	8310..8624, 8313..8627, 8313..8504, 8331..8624, 8377..8553, 8382..8624, 8383..8460, 8385..8624, 8385..8576, 8385..8624, 8385..8840, 8446..8829, 8526..9011, 8527..8691, 8559..8624, 8590..8880, 8656..8769, 8676..8894, 8676..8894, 8676..9026, 8682..8894, 8682..8894, 8682..8894, 8694..8822, 8703..8822, 8772..8894, 8946..9029, 8946..9029, 9027..9251, 9060..9245, 9069..9257, 9069..9245, 9075..9701, 9075..9257, 9144..9245, 9270..9503, 9273..9671, 9552..9704, 9552..9704, 9630..9701, 9702..9824, 9702..9821, 9702..9812, 9702..9821, 9720..9812, 13298..13642, 13301..13828, 13430..13606, 13436..13924, 13442..13708, 13445..13924, 13445..13999, 13445..13852, 13445..13927, 13446..13550, 13487..13903, 13517..14023, 13547..13666, 13586..13927, 13590..13751, 13634..13924, 13661..13837, 13763..13882, 13928..14017, 14048..14212, 14057..14242, 14057..14209, 14057..14236, 14057..14245, 14063..14323, 14108..14239, 14282..14674, 14321..14698, 14321..14689, 14321..14683, 14321..14665, 14330..14674, 14330..14569, 14330..14683, 14432..14551, 14475..14666, 14687..14812, 14687..14797, 14717..14812, 14858..14881, 17040..17180, 17052..17180, 17079..17504, 17082..17579, 17082..17360, 17095..17397, 17095..17328, 17097..17177, 17097..17432, 17169..17507, 17229..17318, 17230..17481, 17230..17361, 17235..17480, 17241..17504, 17241..17564, 17314..17484, 17331..17462, 17595..17822, 17637..17825, 17637..17822, 17637..17822, 17643..17822, 17695..17823, 17810..17857, 17898..18260, 17898..18080, 17904..18272, 17904..18248, 17904..18272, 17910..18266, 17911..17940, 17913..18224, 17914..18111, 17914..18213, 17931..18062, 18030..18254, 18267..18380, 18270..18395, 18270..18380, 18270..18389, 18300..18410		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o2.tm	Method	TBLASTX:Maize
Start	8382	End	18485
GI	none	Score	55
Exons	8382..8594, 8385..8510, 8457..8564, 8593..8685, 8674..8793, 8676..8888, 8676..8783, 8946..9035, 9120..9251, 9126..9236, 9264..9482, 9474..9875, 9603..9869, 9607..9894, 13445..13660, 13517..13648, 13589..13699, 13652..13876, 13661..13771, 13931..14020, 13931..14020, 14063..14236, 14114..14236, 14459..14875, 14475..14852, 14681..14866, 14861..14902, 14862..14897, 17085..17183, 17241..17351, 17270..17335, 17313..17432, 17511..17600, 17688..17816, 17898..18128, 17913..18017, 18048..18452, 18337..18435, 18444..18485		

Seq. No.	29473	Seq. ID	OJ000150_09.0218.C25
Gene No.	60850	Strand	-
Start	6051	End	19105
Name	OJ000150_09.0218.C25.o1.tw	Method	TBLASTX:Wheat
Start	8679	End	18194
GI	none	Score	106
Exons	8679..8876, 8760..8894, 8940..9305, 9201..9341, 9288..9440, 9549..9692, 13532..13720, 13583..13792, 13754..13984,		

13880..14284, 13890..14264, 14321..14428, 14408..14596,  
17328..17570, 17460..17843, 17583..17645, 17725..17808,  
17934..18080, 17958..18179, 18108..18194, 18129..18161

Seq. No.	29474	Seq. ID	OJ000150_09.0218.C26
Gene No.	60851	Strand	-
Start	1	End	1665
Name	OJ000150_09.0218.C26.o1.np	Method	AAT/NAP
Start	1	End	1665
GI	3024450	Score	79
Exons	1..52, 1536..1665		
GI Descrip.	PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) gi 2143323 emb CAA73765.1  (Y13328) 51kDa chlorophyll a protein [Populus deltoides]		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.gs	Method	GENSCAN
Start	120	End	2503
GI	none	Score	.71
Exons	120..541, 652..2503		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.np	Method	AAT/NAP
Start	162	End	2600
GI	6522541	Score	1231
Exons	162..541, 652..2600		
GI Descrip.	(AL132955) receptor-kinase like protein [Arabidopsis thaliana]		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o2.tm	Method	TBLASTX:Maize
Start	198	End	724
GI	none	Score	74
Exons	198..320, 202..330, 333..542, 346..543, 653..724, 654..695		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.ts	Method	TBLASTX:Soybean
Start	213	End	1246
GI	none	Score	39
Exons	213..278, 360..542, 361..543, 448..561, 668..1138, 752..907, 951..1139, 1154..1246		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o2.tw	Method	TBLASTX:Wheat
Start	442	End	907
GI	none	Score	55
Exons	442..552, 447..542, 653..676, 719..907		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.tc	Method	TBLASTX:Cress
Start	447	End	2503
GI	none	Score	70
Exons	447..542, 653..676, 723..890, 725..913, 938..985, 1034..1138, 1145..1246, 1451..1543, 1463..1612, 1514..2200, 1514..2059, 1514..1705, 1586..2221, 1658..1996, 1658..1726, 1658..2200, 1661..2215, 1661..2068, 1721..2194, 1731..1970, 1784..2083, 1790..2215, 1805..2080, 1853..2209, 1986..2210, 1988..2209, 2019..2189, 2145..2189, 2219..2308, 2399..2503		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.tm	Method	TBLASTX:Maize
Start	725	End	1077
GI	none	Score	300
Exons	725..1075, 729..1076, 895..1077, 901..1077		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o4.tm	Method	TBLASTX:Maize
Start	1343	End	2503
GI	none	Score	131
Exons	1343..1528, 1344..1526, 2396..2503		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o2.ts	Method	TBLASTX:Soybean
Start	1514	End	2503
GI	none	Score	65
Exons	1514..2146, 1580..2200, 1586..2221, 1652..2215, 1653..1823, 1722..1970, 1728..1958, 1875..1964, 1886..2128, 1998..2039, 2019..2204, 2068..2115, 2094..2216, 2231..2302, 2396..2503		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o3.tm	Method	TBLASTX:Maize
Start	1532	End	2221
GI	none	Score	76
Exons	1532..2200, 1586..2059, 1655..2221, 1658..1996, 1722..1970, 1751..2215, 1932..2114, 1988..2050		

Seq. No.	29475	Seq. ID	OJ000150_09.0218.C27
Gene No.	60852	Strand	-
Start	120	End	2600
Name	OJ000150_09.0218.C27.o1.tw	Method	TBLASTX:Wheat
Start	1721	End	2350
GI	none	Score	61
Exons	1721..1915, 1775..1999, 1847..2065, 1913..2128, 1926..2030, 1967..2350		

Seq. No. 29476  
Gene No. 60853  
Start 44  
Name OJ000150\_09.0218.C28.o1.gs  
Start 44  
GI none  
Exons 44..200

Seq. ID OJ000150\_09.0218.C28  
Strand -  
End 200  
Method GENSCAN  
End 200  
Score .74

Seq. No. 29477  
Gene No. 60854  
Start 22  
Name OJ000150\_09.0218.C34.o1.gs  
Start 22  
GI none  
Exons 22..112, 185..384

Seq. ID OJ000150\_09.0218.C34  
Strand -  
End 384  
Method GENSCAN  
End 384  
Score .54

Seq. No. 29478  
Gene No. 60855  
Start 203  
Name OJ000150\_09.0218.C35.o1.gs  
Start 203  
GI none  
Exons 203..271

Seq. ID OJ000150\_09.0218.C35  
Strand -  
End 271  
Method GENSCAN  
End 271  
Score .73

Seq. No. 29479  
Gene No. 60856  
Start 344  
Name OJ000150\_09.0218.C38.o1.gs  
Start 344  
GI none  
Exons 344..460

Seq. ID OJ000150\_09.0218.C38  
Strand -  
End 460  
Method GENSCAN  
End 460  
Score .77

Seq. No. 29480  
Gene No. 60857  
Start 1  
Name OJ000150\_09.0218.C43.o1.gp  
Start 1  
GI 82921 1.R1084  
Exons 1..236

Seq. ID OJ000150\_09.0218.C43  
Strand -  
End 236  
Method AAT/GAP  
End 236  
Score 450

GI Descrip. '5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'

Seq. No. 29481  
Gene No. 60858  
Start 393  
Name OJ000150\_09.0218.C45.o1.gs  
Start 393  
GI none  
Exons 393..536

Seq. ID OJ000150\_09.0218.C45  
Strand +  
End 536  
Method GENSCAN  
End 536  
Score .85

Seq. No. 29482  
Gene No. 60859  
Start 1  
Name OJ000250\_04.0222.C1.o1.gp  
Start 1  
GI 5002953  
Exons 1..517

Seq. ID OJ000250\_04.0222.C1  
Strand +  
End 994  
Method AAT/GAP  
End 517  
Score 753



GI Descrip. 4680203/gb|AAD27566.1|AF114171\_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	29482	Seq. ID	OJ000250_04.0222.C1
Gene No.	60859	Strand	+
Start	1	End	994
Name	OJ000250_04.0222.C1.o1.np	Method	AAT/NAP
Start	1	End	994
GI	4680203	Score	507
Exons	1..994		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29482	Seq. ID	OJ000250_04.0222.C1
Gene No.	60859	Strand	+
Start	1	End	994
Name	OJ000250_04.0222.C1.o1.tw	Method	TBLASTX:Wheat
Start	2	End	952
GI	none	Score	155
Exons	2..178, 7..141, 210..275, 294..380, 311..358, 365..454, 458..649, 493..633, 638..685, 689..730, 692..730, 754..831, 755..859, 860..952		

Seq. No.	29482	Seq. ID	OJ000250_04.0222.C1
Gene No.	60859	Strand	+
Start	1	End	994
Name	OJ000250_04.0222.C1.o1.tc	Method	TBLASTX:Cress
Start	22	End	445
GI	none	Score	125
Exons	22..141, 26..178, 210..275, 294..380, 311..358, 365..445		

Seq. No.	29482	Seq. ID	OJ000250_04.0222.C1
Gene No.	60859	Strand	+
Start	1	End	994
Name	OJ000250_04.0222.C1.o1.gs	Method	GENSCAN
Start	59	End	953
GI	none	Score	.58
Exons	59..191, 235..343, 367..953		

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o1.gp	Method	AAT/GAP
Start	1	End	2102
GI	342_1.R1084	Score	3555
Exons	1..2102		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o1.np	Method	AAT/NAP
Start	1	End	3410
GI	4680203	Score	2305
Exons	1..281, 435..2106, 3379..3410		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o4.tw  
 Start 3  
 GI none  
 Exons 3..128, 3..128, 4..129

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Wheat  
 End 129  
 Score 79

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o2.tw  
 Start 130  
 GI none  
 Exons 130..255, 132..260, 132..254, 287..499, 288..506, 289..510, 530..577, 531..578

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Wheat  
 End 578  
 Score 113

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o1.gs  
 Start 192  
 GI none  
 Exons 192..370, 438..546, 551..1159, 1295..1467, 1649..1919

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method GENSCAN  
 End 1919  
 Score .59

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o2.ts  
 Start 611  
 GI none  
 Exons 611..853

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Soybean  
 End 853  
 Score 216

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o1.tm  
 Start 683  
 GI none  
 Exons 683..877, 887..1141, 887..1129

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Maize  
 End 1141  
 Score 103

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o1.tw  
 Start 717  
 GI none  
 Exons 717..923, 717..926, 722..925, 722..946, 926..1024, 927..1019, 1028..1132, 1032..1121, 1133..1186, 1134..1178

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Wheat  
 End 1186  
 Score 173

Seq. No. 29483  
 Gene No. 60860  
 Start 1  
 Name OJ000250\_04.0222.C2.o1.tc  
 Start 974  
 GI none  
 Exons 974..1315, 993..1130, 1170..1322

Seq. ID OJ000250\_04.0222.C2  
 Strand -  
 End 5010  
 Method TBLASTX:Cress  
 End 1322  
 Score 88

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o4.gp	Method	AAT/GAP
Start	1035	End	2556
GI	2310235	Score	294
Exons	1035..1091, 1969..2106, 2519..2556		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o1.ts	Method	TBLASTX:Soybean
Start	1055	End	1484
GI	none	Score	121
Exons	1055..1351, 1073..1297, 1346..1408, 1401..1484, 1409..1483		

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o3.tw	Method	TBLASTX:Wheat
Start	1415	End	1757
GI	none	Score	91
Exons	1415..1519, 1416..1514, 1484..1657, 1530..1658, 1530..1667, 1537..1659, 1650..1757		

Seq. No.	29483	Seq. ID	OJ000250_04.0222.C2
Gene No.	60860	Strand	-
Start	1	End	5010
Name	OJ000250_04.0222.C2.o2.gs	Method	GENSCAN
Start	2990	End	5010
GI	none	Score	.51
Exons	2990..3080, 3529..3620, 4924..5010		

Seq. No.	29484	Seq. ID	OJ000250_04.0222.C3
Gene No.	60861	Strand	+
Start	262	End	5066
Name	OJ000250_04.0222.C3.o1.gs	Method	GENSCAN
Start	262	End	5066
GI	none	Score	.53
Exons	262..682, 766..910, 1763..1806, 3409..3489, 4159..4241, 4917..5066		

Seq. No.	29484	Seq. ID	OJ000250_04.0222.C3
Gene No.	60862	Strand	-
Start	5121	End	7481
Name	OJ000250_04.0222.C3.o1.np	Method	AAT/NAP
Start	5121	End	7481
GI	4835244	Score	673
Exons	5121..5219, 5859..6021, 6127..6489, 6536..7481		
GI Descrip.	(AL049862) putative mitochondrial protein [Arabidopsis thaliana]		

Seq. No.	29484	Seq. ID	OJ000250_04.0222.C3
Gene No.	60862	Strand	-
Start	5121	End	7481

Name OJ000250\_04.0222.C3.o2.gs  
 Start 5845  
 GI none  
 Exons 5845..6443, 6448..7447

Method GENSCAN  
 End 7447  
 Score .63

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o2.tm  
 Start 6070  
 GI none  
 Exons 6070..6288, 6082..6288

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method TBLASTX:Maize  
 End 6288  
 Score 164

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o1.ts  
 Start 6118  
 GI none  
 Exons 6118..6435, 6124..6435, 6532..6606, 6560..6868, 6651..6833, 6872..7168, 7088..7435

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method TBLASTX:Soybean  
 End 7435  
 Score 192

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o1.tc  
 Start 6127  
 GI none  
 Exons 6127..6411, 6127..6414, 6206..6454

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method TBLASTX:Cress  
 End 6454  
 Score 120

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o1.tw  
 Start 6193  
 GI none  
 Exons 6193..6414, 6212..6421, 6212..6421

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method TBLASTX:Wheat  
 End 6421  
 Score 147

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o1.tm  
 Start 6289  
 GI none  
 Exons 6289..6375, 6334..6375, 6379..6426, 6386..6427, 6532..6615, 6560..6868, 6651..6737, 6698..6868, 6811..6879, 6878..6931

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method TBLASTX:Maize  
 End 6931  
 Score 58

Seq. No. 29484  
 Gene No. 60863  
 Start 12190  
 Name OJ000250\_04.0222.C3.o3.gs  
 Start 12190  
 GI none  
 Exons 12190..12326, 12541..12667

Seq. ID OJ000250\_04.0222.C3  
 Strand -  
 End 12667  
 Method GENSCAN  
 End 12667  
 Score .68

Seq. No. 29485  
 Gene No. 60864

Seq. ID OJ000250\_04.0222.C4  
 Strand +

Start	1	End	11512
Name	OJ000250_04.0222.C4.o2.np	Method	AAT/NAP
Start	1	End	11512
GI	5902445	Score	1164
Exons	1..35, 6813..7836, 11295..11512		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60864	Strand	+
Start	1	End	11512
Name	OJ000250_04.0222.C4.o1.gp	Method	AAT/GAP
Start	2320	End	2757
GI	LIB3434-038-P1-K1-F1	Score	481
Exons	2320..2757		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60865	Strand	-
Start	383	End	1540
Name	OJ000250_04.0222.C4.o1.gs	Method	GENSCAN
Start	383	End	1540
GI	none	Score	.44
Exons	383..1540		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60865	Strand	-
Start	383	End	1540
Name	OJ000250_04.0222.C4.o1.np	Method	AAT/NAP
Start	428	End	1507
GI	5257279	Score	1086
Exons	428..613, 962..1507		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60866	Strand	-
Start	7539	End	11503
Name	OJ000250_04.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	6931	End	7235
GI	none	Score	149
Exons	6931..7080, 6969..7079, 7058..7234, 7062..7235		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60866	Strand	-
Start	7539	End	11503
Name	OJ000250_04.0222.C4.o1.tw	Method	TBLASTX:Wheat
Start	6931	End	7313
GI	none	Score	133
Exons	6931..7080, 6939..7079, 7059..7313, 7059..7304, 7082..7312		

Seq. No.	29485	Seq. ID	OJ000250_04.0222.C4
Gene No.	60866	Strand	-
Start	7539	End	11503
Name	OJ000250_04.0222.C4.o2.tw	Method	TBLASTX:Wheat
Start	7437	End	11503
GI	none	Score	308

Exons 7437..7835, 7451..7540, 7586..7693, 11372..11503, 11386..11502

Seq. No. 29485 Seq. ID OJ000250\_04.0222.C4  
Gene No. 60866 Strand -  
Start 7539 End 11503  
Name OJ000250\_04.0222.C4.o2.gp Method AAT/GAP  
Start 7539 End 8111  
GI uC-osflcyp088b12b1 Score 163  
Exons 7539..7559, 8001..8111  
GI Descrip. '5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic  
DNA, chromosome 8, clone:P0026F07'

Seq. No. 29486 Seq. ID OJ000250\_04.0222.C5  
Gene No. 60867 Strand -  
Start 50 End 696  
Name OJ000250\_04.0222.C5.o1.gs Method GENSCAN  
Start 50 End 696  
GI none Score .69  
Exons 50..567, 678..696

Seq. No. 29487 Seq. ID OJ000250\_04.0222.C6  
Gene No. 60868 Strand +  
Start 68 End 596  
Name OJ000250\_04.0222.C6.o1.gs Method GENSCAN  
Start 68 End 596  
GI none Score .85  
Exons 68..153, 196..596

Seq. No. 29488 Seq. ID OJ000250\_04.0222.C7  
Gene No. 60869 Strand +  
Start 922 End 4999  
Name OJ000250\_04.0222.C7.o1.gs Method GENSCAN  
Start 922 End 4999  
GI none Score .68  
Exons 922..1051, 1140..1873, 1952..2413, 2495..3036, 3042..3326,  
3409..3579, 3746..3917, 4356..4394, 4934..4999

Seq. No. 29488 Seq. ID OJ000250\_04.0222.C7  
Gene No. 60869 Strand +  
Start 922 End 4999  
Name OJ000250\_04.0222.C7.o1.gp Method AAT/GAP  
Start 3735 End 4254  
GI LIB3431-001-P1-N1-B5 Score 749  
Exons 3735..3917, 4023..4254  
GI Descrip. '4680203/gb|AAD27566.1|AF114171\_7 1.0e-39 (AF114171) TNP2-like  
protein [Sorghum bicolor]'

Seq. No. 29488 Seq. ID OJ000250\_04.0222.C7  
Gene No. 60870 Strand +  
Start 6103 End 6296  
Name OJ000250\_04.0222.C7.o2.gs Method GENSCAN  
Start 6103 End 6296  
GI none Score .92  
Exons 6103..6258, 6291..6296

Seq. No. 29488 Seq. ID OJ000250\_04.0222.C7  
Gene No. 60871 Strand -

Start 6637  
 Name OJ000250\_04.0222.C7.o3.gs  
 Start 6637  
 GI none  
 Exons 6637..6912

End 6912  
 Method GENSCAN  
 End 6912  
 Score .85

Seq. No. 29489  
 Gene No. 60872  
 Start 7731  
 Name OJ000250\_04.0222.C8.o1.np  
 Start 7731  
 GI 4680204  
 Exons 7731..7824, 10472..10661  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. ID OJ000250\_04.0222.C8  
 Strand +  
 End 10661  
 Method AAT/NAP  
 End 10661  
 Score 76

Seq. No. 29489  
 Gene No. 60872  
 Start 7731  
 Name OJ000250\_04.0222.C8.o1.gp  
 Start 8544  
 GI 3768387  
 Exons 8544..8811, 9879..10029

Seq. ID OJ000250\_04.0222.C8  
 Strand +  
 End 10661  
 Method AAT/GAP  
 End 10029  
 Score 764

Seq. No. 29489  
 Gene No. 60873  
 Start 35245  
 Name OJ000250\_04.0222.C8.o4.gp  
 Start 35245  
 GI 21474\_1.R1084  
 Exons 35245..35394  
 GI Descrip. '3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ000250\_04.0222.C8  
 Strand +  
 End 35394  
 Method AAT/GAP  
 End 35394  
 Score 239

Seq. No. 29489  
 Gene No. 60874  
 Start 14399  
 Name OJ000250\_04.0222.C8.o2.gs  
 Start 14399  
 GI none  
 Exons 14399..14448, 15307..15406, 17276..17459, 20670..20797,

Seq. ID OJ000250\_04.0222.C8  
 Strand -  
 End 26572  
 Method GENSCAN  
 End 21535  
 Score .47  
 15548..15677, 16434..16504, 20802..21216, 21477..21535

Seq. No. 29489  
 Gene No. 60874  
 Start 14399  
 Name OJ000250\_04.0222.C8.o2.np  
 Start 18752  
 GI 4493978  
 Exons 18752..18786, 20438..20515, 23176..23394, 26483..26538  
 GI Descrip. (AL034559) predicted using hexExon; MAL3P7.21 (PFC0960c), Hypothetical protein, len: 1929 aa [Plasmodium falciparum]

Seq. ID OJ000250\_04.0222.C8  
 Strand -  
 End 26572  
 Method AAT/NAP  
 End 26538  
 Score 69

Seq. No. 29489  
 Gene No. 60874  
 Start 14399  
 Name OJ000250\_04.0222.C8.o2.gp  
 Start 23289

Seq. ID OJ000250\_04.0222.C8  
 Strand -  
 End 26572  
 Method AAT/GAP  
 End 23379

GI 5867\_1.R1084 Score 125  
 Exons 23289..23379  
 GI Descrip. '464986/sp|P35132|UBC9\_ARATH 5.0e-58 UBIQUITIN-CONJUGATING  
 ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN  
 CARRIER PROTEIN 9) (UBCAT4B) >gi\_421857\_pir\_S32674  
 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis  
 thaliana >gi\_297884\_emb\_CAA78714\_ (Z14990) ubiquitin conjugating  
 enzyme homolog [Arabidopsis thaliana] >gi\_349211 (L00639)  
 ubiquitin conjugating enzyme [Arabidopsis]

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
 Gene No. 60874 Strand -  
 Start 14399 End 26572  
 Name OJ000250\_04.0222.C8.o3.gp Method AAT/GAP  
 Start 26031 End 26572  
 GI 273\_1.R1084 Score 337  
 Exons 26031..26114, 26409..26572  
 GI Descrip. '417260/sp|Q03200|LRP\_ORYSA 8.0e-41 LIGHT REGULATED PROTEIN  
 PRECURSOR >gi\_422003\_pir\_S33632 lirl protein - rice  
 >gi\_20263\_emb\_CAA48706\_ (X68807) light-regulated gene [Oryza  
 sativa]'

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
 Gene No. 60875 Strand -  
 Start 29778 End 35108  
 Name OJ000250\_04.0222.C8.o4.gs Method GENSCAN  
 Start 29778 End 35108  
 GI none Score .68  
 Exons 29778..30208, 30571..30687, 31380..31674, 31782..31891,  
 32206..32270, 32306..32505, 32591..32616, 34257..34412,  
 34991..35108

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
 Gene No. 60876 Strand -  
 Start 35777 End 40793  
 Name OJ000250\_04.0222.C8.o5.gs Method GENSCAN  
 Start 35777 End 40793  
 GI none Score .74  
 Exons 35777..35962, 36042..36140, 36235..36307, 36392..36502,  
 36599..36772, 36882..37981, 38056..39477, 40339..40412,  
 40578..40793

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
 Gene No. 60876 Strand -  
 Start 35777 End 40793  
 Name OJ000250\_04.0222.C8.o3.np Method AAT/NAP  
 Start 35795 End 39492  
 GI 4680204 Score 1045  
 Exons 35795..35932, 36283..36502, 36599..36772, 36882..37981,  
 38056..39492  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
 Gene No. 60876 Strand -  
 Start 35777 End 40793  
 Name OJ000250\_04.0222.C8.o2.tw Method TBLASTX:Wheat  
 Start 36433 End 36955



GI none Score 68  
Exons 36433..36504, 36604..36783, 36611..36736, 36875..36955

Seq. No. 29489 Seq. ID OJ000250\_04.0222.C8  
Gene No. 60876 Strand -  
Start 35777 End 40793  
Name OJ000250\_04.0222.C8.o1.tw Method TBLASTX:Wheat  
Start 38446 End 38849  
GI none Score 84  
Exons 38446..38616, 38579..38746, 38611..38847, 38698..38847,  
38739..38849

Seq. No. 29490 Seq. ID OJ000250\_04.0222.C9  
Gene No. 60877 Strand +  
Start 49 End 197  
Name OJ000250\_04.0222.C9.o1.gs Method GENSCAN  
Start 49 End 197  
GI none Score .4  
Exons 49..197

Seq. No. 29490 Seq. ID OJ000250\_04.0222.C9  
Gene No. 60878 Strand -  
Start 1 End 1414  
Name OJ000250\_04.0222.C9.o1.np Method AAT/NAP  
Start 1 End 1414  
GI 4680203 Score 305  
Exons 1..48, 1088..1414  
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 29490 Seq. ID OJ000250\_04.0222.C9  
Gene No. 60878 Strand -  
Start 1 End 1414  
Name OJ000250\_04.0222.C9.o1.tw Method TBLASTX:Wheat  
Start 1085 End 1414  
GI none Score 40  
Exons 1085..1186, 1093..1194, 1191..1271, 1199..1339, 1200..1340,  
1287..1382, 1319..1378, 1383..1409, 1385..1414, 1390..1410

Seq. No. 29490 Seq. ID OJ000250\_04.0222.C9  
Gene No. 60878 Strand -  
Start 1 End 1414  
Name OJ000250\_04.0222.C9.o2.gs Method GENSCAN  
Start 1100 End 1327  
GI none Score .96  
Exons 1100..1327

Seq. No. 29491 Seq. ID OJ000250\_04.0222.C11  
Gene No. 60879 Strand +  
Start 4713 End 11518  
Name OJ000250\_04.0222.C11.o2.np Method AAT/NAP  
Start 4713 End 11355  
GI 5257279 Score 5624  
Exons 4713..4737, 6640..6697, 7328..10046, 10263..10425, 10540..11355  
GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene  
homologues. (L35053) [Oryza sativa]

Seq. No. 29491 Seq. ID OJ000250\_04.0222.C11

Gene No.	60879	Strand	+
Start	4713	End	11518
Name	OJ000250_04.0222.C11.o3.gs	Method	GENSCAN
Start	7110	End	11518
GI	none	Score	.66
Exons	7110..11518		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60880	Strand	-
Start	1	End	3064
Name	OJ000250_04.0222.C11.o1.np	Method	AAT/NAP
Start	1	End	1836
GI	4680179	Score	445
Exons	1..57, 1178..1836		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60880	Strand	-
Start	1	End	3064
Name	OJ000250_04.0222.C11.o1.gs	Method	GENSCAN
Start	1162	End	3064
GI	none	Score	.7
Exons	1162..1815, 2008..2194, 2988..3064		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60881	Strand	-
Start	3066	End	3438
Name	OJ000250_04.0222.C11.o1.gp	Method	AAT/GAP
Start	3066	End	3438
GI	uC-osflcyp033a04b1	Score	508
Exons	3066..3438		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60882	Strand	-
Start	4325	End	7607
Name	OJ000250_04.0222.C11.o7.tw	Method	TBLASTX:Wheat
Start	1234	End	7607
GI	none	Score	159
Exons	1234..1593, 1238..1591, 7245..7436, 7394..7597, 7461..7607		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60882	Strand	-
Start	4325	End	7607
Name	OJ000250_04.0222.C11.o2.gs	Method	GENSCAN
Start	4325	End	6205
GI	none	Score	.7
Exons	4325..5724, 6115..6205		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60883	Strand	-
Start	8154	End	8537
Name	OJ000250_04.0222.C11.o6.tm	Method	TBLASTX:Maize
Start	8154	End	8479
GI	none	Score	205
Exons	8154..8477, 8201..8302, 8345..8479		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60883	Strand	
Start	8154	End	8537
Name	OJ000250_04.0222.C11.o8.tw	Method	TBLASTX:Wheat
Start	8159	End	8537
GI	none	Score	138
Exons	8159..8281, 8160..8381, 8379..8531, 8415..8537, 8426..8536		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60884	Strand	
Start	8612	End	8774
Name	OJ000250_04.0222.C11.o7.tm	Method	TBLASTX:Maize
Start	8612	End	8774
GI	none	Score	194
Exons	8612..8773, 8613..8774		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60885	Strand	
Start	8709	End	10046
Name	OJ000250_04.0222.C11.o4.tw	Method	TBLASTX:Wheat
Start	8709	End	9191
GI	none	Score	551
Exons	8709..9191, 8720..9016, 8829..9182, 9044..9187		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60885	Strand	
Start	8709	End	10046
Name	OJ000250_04.0222.C11.o3.tm	Method	TBLASTX:Maize
Start	8775	End	9245
GI	none	Score	396
Exons	8775..9245, 8849..9022		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60885	Strand	
Start	8709	End	10046
Name	OJ000250_04.0222.C11.o2.tc	Method	TBLASTX:Cress
Start	8837	End	9155
GI	none	Score	188
Exons	8837..9007, 8838..9155		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60885	Strand	
Start	8709	End	10046
Name	OJ000250_04.0222.C11.o1.ts	Method	TBLASTX:Soybean
Start	9132	End	9527
GI	none	Score	54
Exons	9132..9164, 9132..9161, 9168..9527, 9170..9526		

Seq. No.	29491	Seq. ID	OJ000250_04.0222.C11
Gene No.	60885	Strand	
Start	8709	End	10046
Name	OJ000250_04.0222.C11.o5.tw	Method	TBLASTX:Wheat
Start	9240	End	9542
GI	none	Score	399
Exons	9240..9542, 9260..9526		

Seq. No. 29491  
 Gene No. 60885  
 Start 8709  
 Name OJ000250\_04.0222.C11.o5.tm  
 Start 9245  
 GI none  
 Exons 9245..9409, 9246..9407

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 10046  
 Method TBLASTX:Maize  
 End 9409  
 Score 206

Seq. No. 29491  
 Gene No. 60885  
 Start 8709  
 Name OJ000250\_04.0222.C11.o2.tm  
 Start 9413  
 GI none  
 Exons 9413..9841, 9414..9854

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 10046  
 Method TBLASTX:Maize  
 End 9854  
 Score 470

Seq. No. 29491  
 Gene No. 60885  
 Start 8709  
 Name OJ000250\_04.0222.C11.o2.tw  
 Start 9543  
 GI none  
 Exons 9543..10046, 9551..10045

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 10046  
 Method TBLASTX:Wheat  
 End 10046  
 Score 620

Seq. No. 29491  
 Gene No. 60885  
 Start 8709  
 Name OJ000250\_04.0222.C11.o3.ts  
 Start 9552  
 GI none  
 Exons 9552..9794

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 10046  
 Method TBLASTX:Soybean  
 End 9794  
 Score 209

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o3.tw  
 Start 10047  
 GI none  
 Exons 10047..10535, 10071..10529, 10160..10531

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Wheat  
 End 10535  
 Score 592

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o1.tc  
 Start 10242  
 GI none  
 Exons 10242..10415, 10250..10363, 10416..10559, 10418..10558

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Cress  
 End 10559  
 Score 109

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o2.ts  
 Start 10334  
 GI none  
 Exons 10334..10579, 10335..10580

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Soybean  
 End 10580  
 Score 281

Seq. No. 29491

Seq. ID OJ000250\_04.0222.C11

Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o4.tm  
 Start 10382  
 GI none  
 Exons 10382..10669, 10383..10673

Strand  
 End 11555  
 Method TBLASTX:Maize  
 End 10673  
 Score 381

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o1.tw  
 Start 10542  
 GI none  
 Exons 10542..11168, 10544..11167

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Wheat  
 End 11168  
 Score 715

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o1.tm  
 Start 10725  
 GI none  
 Exons 10725..10883, 10727..10879, 10821..11021, 10876..11022, 10880..11131, 10880..11308, 10881..11309

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Maize  
 End 11309  
 Score 222

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o6.tw  
 Start 11168  
 GI none  
 Exons 11168..11392, 11169..11501

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Wheat  
 End 11501  
 Score 358

Seq. No. 29491  
 Gene No. 60886  
 Start 10047  
 Name OJ000250\_04.0222.C11.o8.tm  
 Start 11309  
 GI none  
 Exons 11309..11437, 11310..11510, 11421..11555

Seq. ID OJ000250\_04.0222.C11  
 Strand  
 End 11555  
 Method TBLASTX:Maize  
 End 11555  
 Score 182

Seq. No. 29492  
 Gene No. 60887  
 Start 831  
 Name OJ000250\_04.0222.C12.o1.gs  
 Start 831  
 GI none  
 Exons 831..983

Seq. ID OJ000250\_04.0222.C12  
 Strand +  
 End 983  
 Method GENSCAN  
 End 983  
 Score .65

Seq. No. 29492  
 Gene No. 60888  
 Start 2792  
 Name OJ000250\_04.0222.C12.o2.gs  
 Start 2792  
 GI none  
 Exons 2792..2893

Seq. ID OJ000250\_04.0222.C12  
 Strand -  
 End 2893  
 Method GENSCAN  
 End 2893  
 Score .82

Seq. No. 29493

Seq. ID OJ000250\_04.0222.C13

Gene No. 60889 Strand +  
 Start 644 End 23678  
 Name OJ000250\_04.0222.C13.o3.np Method AAT/NAP  
 Start 644 End 23678  
 GI 1947160 Score 186  
 Exons 644..691, 1797..2009, 2891..3237, 7388..7578, 11130..11200,  
 12253..12321, 13280..13363, 18780..19129, 22488..22610,  
 23636..23678  
 GI Descrip. (AF000298) weak similarity to collagens; glycine- and  
 proline-rich [Caenorhabditis elegans]

Seq. No. 29493 Seq. ID OJ000250\_04.0222.C13  
 Gene No. 60889 Strand +  
 Start 644 End 23678  
 Name OJ000250\_04.0222.C13.o1.np Method AAT/NAP  
 Start 1032 End 4586  
 GI 6907089 Score 1986  
 Exons 1032..2028, 2059..2329, 2378..2832, 2913..3483, 3598..3726,  
 3832..4586  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 29493 Seq. ID OJ000250\_04.0222.C13  
 Gene No. 60889 Strand +  
 Start 644 End 23678  
 Name OJ000250\_04.0222.C13.o1.gs Method GENSCAN  
 Start 1041 End 4670  
 GI none Score .63  
 Exons 1041..1401, 1441..1588, 1631..2305, 2525..2985, 3006..3305,  
 3371..3532, 3701..4207, 4234..4670

Seq. No. 29493 Seq. ID OJ000250\_04.0222.C13  
 Gene No. 60889 Strand +  
 Start 644 End 23678  
 Name OJ000250\_04.0222.C13.o4.gs Method GENSCAN  
 Start 22510 End 23667  
 GI none Score .52  
 Exons 22510..22594, 22667..22725, 23011..23667

Seq. No. 29493 Seq. ID OJ000250\_04.0222.C13  
 Gene No. 60889 Strand +  
 Start 644 End 23678  
 Name OJ000250\_04.0222.C13.o4.np Method AAT/NAP  
 Start 23011 End 23678  
 GI 4680203 Score 326  
 Exons 23011..23678  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 29493 Seq. ID OJ000250\_04.0222.C13  
 Gene No. 60890 Strand -  
 Start 4729 End 4838  
 Name OJ000250\_04.0222.C13.o1.gp Method AAT/GAP  
 Start 4729 End 4838  
 GI uC-osflcyp088b12b1 Score 123  
 Exons 4729..4838  
 GI Descrip. '5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic  
 DNA, chromosome 8, clone:P0026F07'

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60891	Strand	-
Start	6272	End	7245
Name	OJ000250_04.0222.C13.o2.gs	Method	GENSCAN
Start	6272	End	7245
GI	none	Score	.98
Exons	6272..6672, 6751..6978, 7020..7245		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o4.tw	Method	TBLASTX:Wheat
Start	2287	End	11672
GI	none	Score	59
Exons	2287..2373, 5377..5502, 11159..11671, 11160..11477, 11499..11672		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o2.np	Method	AAT/NAP
Start	8908	End	12957
GI	6498441	Score	2402
Exons	8908..9188, 9282..10201, 10373..10507, 10691..11043, 11107..11555, 11894..12957		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o2.tw	Method	TBLASTX:Wheat
Start	8917	End	9526
GI	none	Score	63
Exons	8917..9042, 8933..9043, 9072..9524, 9227..9526, 9235..9375, 9415..9519, 9476..9526		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o3.gs	Method	GENSCAN
Start	9045	End	19384
GI	none	Score	.46
Exons	9045..9720, 10022..10074, 10465..10630, 10691..10972, 11160..11832, 11853..12435, 12655..12812, 13088..13515, 13950..14031, 14756..14873, 18698..19384		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o3.tm	Method	TBLASTX:Maize
Start	9048	End	9302
GI	none	Score	195
Exons	9048..9302		
Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-

Start	9045	End	19384
Name	OJ000250_04.0222.C13.o6.tw	Method	TBLASTX:Wheat
Start	9532	End	9804
GI	none	Score	103
Exons	9532..9723, 9546..9707, 9706..9804, 9707..9799		

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o3.tw	Method	TBLASTX:Wheat
Start	10084	End	10485
GI	none	Score	103
Exons	10084..10272, 10085..10249, 10257..10370, 10267..10371, 10366..10485, 10367..10480		

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o2.tm	Method	TBLASTX:Maize
Start	10162	End	10542
GI	none	Score	90
Exons	10162..10272, 10263..10370, 10264..10371, 10364..10504, 10366..10542		

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o1.tm	Method	TBLASTX:Maize
Start	10570	End	10926
GI	none	Score	114
Exons	10570..10887, 10570..10926, 10580..10891		

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o1.tw	Method	TBLASTX:Wheat
Start	10594	End	11034
GI	none	Score	243
Exons	10594..10959, 10595..10945, 10936..11034		

Seq. No.	29493	Seq. ID	OJ000250_04.0222.C13
Gene No.	60892	Strand	-
Start	9045	End	19384
Name	OJ000250_04.0222.C13.o5.tw	Method	TBLASTX:Wheat
Start	12421	End	12819
GI	none	Score	102
Exons	12421..12690, 12452..12691, 12664..12756, 12665..12760, 12763..12819		

Seq. No.	29494	Seq. ID	OJ000250_00.0222.C3
Gene No.	60893	Strand	+
Start	2497	End	8729
Name	OJ000250_00.0222.C3.o1.np	Method	AAT/NAP
Start	2497	End	8729
GI	5852180	Score	646
Exons	2497..2550, 3540..3657, 3709..4089, 4536..4565, 4828..4867, 7786..7875, 8622..8729		



GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No.	29494	Seq. ID	OJ000250_00.0222.C3
Gene No.	60893	Strand	+
Start	2497	End	8729
Name	OJ000250_00.0222.C3.o2.np	Method	AAT/NAP
Start	8268	End	8729
GI	3645899	Score	184

Exons 8268..8729

GI Descrip. (U68408) 5' end not determined experimentally [Zea mays]

Seq. No.	29494	Seq. ID	OJ000250_00.0222.C3
Gene No.	60894	Strand	-
Start	2399	End	2781
Name	OJ000250_00.0222.C3.o1.gp	Method	AAT/GAP
Start	2399	End	2781
GI	uC-osflcyp033a04b1	Score	672

Exons 2399..2781

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	29495	Seq. ID	OJ000250_00.0222.C4
Gene No.	60895	Strand	+
Start	1	End	2019
Name	OJ000250_00.0222.C4.o1.np	Method	AAT/NAP
Start	1	End	569
GI	5295971	Score	250

Exons 1..569

GI Descrip. (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]

Seq. No.	29495	Seq. ID	OJ000250_00.0222.C4
Gene No.	60895	Strand	+
Start	1	End	2019
Name	OJ000250_00.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	13	End	503
GI	none	Score	103

Exons 13..171, 24..134, 149..316, 150..317, 314..355, 316..351, 357..503

Seq. No.	29495	Seq. ID	OJ000250_00.0222.C4
Gene No.	60895	Strand	+
Start	1	End	2019
Name	OJ000250_00.0222.C4.o1.ts	Method	TBLASTX:Soybean
Start	70	End	503
GI	none	Score	50

Exons 70..171, 149..289, 150..314, 321..353, 365..496, 375..503

Seq. No.	29495	Seq. ID	OJ000250_00.0222.C4
Gene No.	60895	Strand	+
Start	1	End	2019
Name	OJ000250_00.0222.C4.o1.tw	Method	TBLASTX:Wheat
Start	149	End	284
GI	none	Score	187

Exons 149..277, 150..284, 150..278

Seq. No. 29495  
 Gene No. 60895  
 Start 1  
 Name OJ000250\_00.0222.C4.o1.gs  
 Start 189  
 GI none  
 Exons 189..599, 1874..2019

Seq. ID OJ000250\_00.0222.C4  
 Strand +  
 End 2019  
 Method GENSCAN  
 End 2019  
 Score .66

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o1.np  
 Start 1  
 GI 4416302  
 Exons 1..792, 2360..2432  
 GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method AAT/NAP  
 End 2432  
 Score 710

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o1.ts  
 Start 1  
 GI 5509260  
 Exons 1..378, 2..403, 204..380, 221..400  
 GI Descrip. -

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method TBLASTX:Soybean  
 End 403  
 Score 476

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o1.tc  
 Start 28  
 GI none  
 Exons 28..288, 29..289

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method TBLASTX:Cress  
 End 289  
 Score 211

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o1.tw  
 Start 47  
 GI none  
 Exons 47..394, 55..159, 81..173, 192..395, 214..378, 221..400

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method TBLASTX:Wheat  
 End 400  
 Score 396

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o1.tm  
 Start 70  
 GI none  
 Exons 70..444, 71..445, 224..487

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method TBLASTX:Maize  
 End 487  
 Score 429

Seq. No. 29496  
 Gene No. 60896  
 Start 1  
 Name OJ000250\_00.0222.C5.o2.tm  
 Start 574  
 GI none  
 Exons 574..792, 575..790

Seq. ID OJ000250\_00.0222.C5  
 Strand +  
 End 2432  
 Method TBLASTX:Maize  
 End 792  
 Score 195

Seq. No.	29496	Seq. ID	OJ000250_00.0222.C5
Gene No.	60896	Strand	+
Start	1	End	2432
Name	OJ000250_00.0222.C5.o1.gs	Method	GENSCAN
Start	677	End	2304
GI	none	Score	.41
Exons	677..773, 2231..2304		

Seq. No.	29497	Seq. ID	OJ000250_00.0222.C6
Gene No.	60897	Strand	+
Start	13038	End	13608
Name	OJ000250_00.0222.C6.o2.gp	Method	AAT/GAP
Start	13038	End	13608
GI	4879016	Score	788
Exons	13038..13608		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	29497	Seq. ID	OJ000250_00.0222.C6
Gene No.	60898	Strand	-
Start	1841	End	16581
Name	OJ000250_00.0222.C6.o1.gp	Method	AAT/GAP
Start	1611	End	3295
GI	uC-osf1M2020117d09a1	Score	716
Exons	1611..1923, 3199..3295		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	29497	Seq. ID	OJ000250_00.0222.C6
Gene No.	60898	Strand	-
Start	1841	End	16581
Name	OJ000250_00.0222.C6.o1.gs	Method	GENSCAN
Start	1841	End	15557
GI	none	Score	.58
Exons	1841..1923, 2268..2396, 3199..3302, 4012..4082, 5490..5551, 5781..6121, 7412..7610, 8513..8717, 9021..9113, 9329..9440, 9898..10049, 10146..10488, 11174..11358, 11661..11781, 12021..12127, 12220..12359, 12413..12669, 13300..13328, 13949..14148, 14601..14724, 14862..15024, 15550..15557		

Seq. No.	29497	Seq. ID	OJ000250_00.0222.C6
Gene No.	60898	Strand	-
Start	1841	End	16581
Name	OJ000250_00.0222.C6.o1.np	Method	AAT/NAP
Start	1844	End	16581
GI	4678346	Score	1081
Exons	1844..1923, 3199..3302, 3804..3890, 5490..5551, 6453..6531, 7412..7610, 8513..8657, 9021..9113, 10146..10265, 10317..10445, 16534..16581		
GI Descrip.	(AL049659) putative protein [Arabidopsis thaliana]		

Seq. No.	29497	Seq. ID	OJ000250_00.0222.C6
Gene No.	60898	Strand	-
Start	1841	End	16581

Name	OJ000250_00.0222.C6.o1.tm	Method	TBLASTX:Maize
Start	3835	End	10239
GI	none	Score	81
Exons	3835..3891, 3839..3898, 5457..5564, 5462..5563, 6451..6540, 6453..6533, 7391..7609, 7414..7614, 7434..7613, 8509..8652, 8514..8648, 8514..8657, 8515..8673, 9015..9113, 9019..9111, 10147..10239, 10149..10235		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60899	Strand	+
Start	1	End	4138
Name	OJ000250_00.0222.C7.o1.np	Method	AAT/NAP
Start	1	End	4138
GI	5042463	Score	121
Exons	1..91, 898..1062, 1756..1904, 2075..2144, 4104..4138		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60899	Strand	+
Start	1	End	4138
Name	OJ000250_00.0222.C7.o1.gs	Method	GENSCAN
Start	2204	End	3478
GI	none	Score	.47
Exons	2204..2265, 3304..3478		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60900	Strand	+
Start	8250	End	11088
Name	OJ000250_00.0222.C7.o3.gs	Method	GENSCAN
Start	8250	End	11088
GI	none	Score	.62
Exons	8250..8482, 8641..8692, 10028..10117, 10408..10813, 10889..11088		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60901	Strand	+
Start	12979	End	15499
Name	OJ000250_00.0222.C7.o2.np	Method	AAT/NAP
Start	12979	End	15499
GI	6630696	Score	4371
Exons	12979..15499		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60901	Strand	+
Start	12979	End	15499
Name	OJ000250_00.0222.C7.o1.gp	Method	AAT/GAP
Start	13021	End	13911
GI	101595_1.R1084	Score	1455
Exons	13021..13721, 13837..13911		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60902	Strand	-
Start	4449	End	7521

Name	OJ000250_00.0222.C7.o2.gs	Method	GENSCAN
Start	4449	End	7521
GI	none	Score	.83
Exons	4449..4723, 6809..7148, 7507..7521		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60903	Strand	
Start	8166	End	8489
Name	OJ000250_00.0222.C7.o1.tc	Method	TBLASTX:Cress
Start	8166	End	8423
GI	none	Score	195
Exons	8166..8423, 8166..8396		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60903	Strand	
Start	8166	End	8489
Name	OJ000250_00.0222.C7.o4.tw	Method	TBLASTX:Wheat
Start	8188	End	8488
GI	none	Score	77
Exons	8188..8397, 8191..8343, 8193..8423, 8211..8429, 8424..8480, 8426..8488		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60903	Strand	
Start	8166	End	8489
Name	OJ000250_00.0222.C7.o2.ts	Method	TBLASTX:Soybean
Start	8190	End	8489
GI	none	Score	182
Exons	8190..8423, 8264..8368, 8424..8489		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60903	Strand	
Start	8166	End	8489
Name	OJ000250_00.0222.C7.o4.tm	Method	TBLASTX:Maize
Start	8190	End	8489
GI	none	Score	202
Exons	8190..8423, 8192..8413, 8208..8429, 8424..8489, 8426..8488, 8430..8489		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60904	Strand	
Start	10729	End	11143
Name	OJ000250_00.0222.C7.o5.tm	Method	TBLASTX:Maize
Start	10729	End	11143
GI	none	Score	110
Exons	10729..10932, 10730..10933, 10732..10794, 10800..10931, 10849..10938, 10930..11046, 10931..11050, 10935..11063, 10946..11062, 11050..11103, 11052..11102, 11054..11143		
Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60905	Strand	
Start	12873	End	13329
Name	OJ000250_00.0222.C7.o2.tw	Method	TBLASTX:Wheat
Start	12873	End	13270
GI	none	Score	128
Exons	12873..12971, 12874..13008, 12985..13269, 13059..13250, 13088..13270		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60905	Strand	
Start	12873	End	13329
Name	OJ000250_00.0222.C7.o2.tm	Method	TBLASTX:Maize
Start	13021	End	13329
GI	none	Score	319
Exons	13021..13329, 13068..13250, 13121..13264, 13150..13326		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60906	Strand	
Start	13813	End	14222
Name	OJ000250_00.0222.C7.o1.tm	Method	TBLASTX:Maize
Start	13813	End	14222
GI	none	Score	377
Exons	13813..14124, 13832..14125, 13833..14129, 13836..14126, 14128..14193, 14130..14222, 14137..14220		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60907	Strand	
Start	14170	End	15363
Name	OJ000250_00.0222.C7.o3.ts	Method	TBLASTX:Soybean
Start	14170	End	14550
GI	none	Score	88
Exons	14170..14319, 14302..14550		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60907	Strand	
Start	14170	End	15363
Name	OJ000250_00.0222.C7.o3.tm	Method	TBLASTX:Maize
Start	14308	End	14772
GI	none	Score	307
Exons	14308..14772, 14547..14765		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60907	Strand	
Start	14170	End	15363
Name	OJ000250_00.0222.C7.o3.tw	Method	TBLASTX:Wheat
Start	14415	End	14615
GI	none	Score	278
Exons	14415..14615, 14416..14613, 14418..14615		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60907	Strand	
Start	14170	End	15363
Name	OJ000250_00.0222.C7.o1.ts	Method	TBLASTX:Soybean
Start	14560	End	14958
GI	none	Score	201
Exons	14560..14781, 14562..14777, 14785..14958		

Seq. No.	29498	Seq. ID	OJ000250_00.0222.C7
Gene No.	60907	Strand	
Start	14170	End	15363
Name	OJ000250_00.0222.C7.o1.tw	Method	TBLASTX:Wheat
Start	14616	End	15363
GI	none	Score	273
Exons	14616..15023, 14616..15113, 14623..15114, 14627..15124,		

15174..15359, 15175..15363

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60908	Strand	+
Start	1	End	832
Name	OJ000250_00.0222.C8.o1.np	Method	AAT/NAP
Start	1	End	635
GI	6630696	Score	1057
Exons	1..635		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related polypeptide from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60908	Strand	+
Start	1	End	832
Name	OJ000250_00.0222.C8.o1.tm	Method	TBLASTX:Maize
Start	12	End	368
GI	none	Score	117
Exons	12..143, 162..368		

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60908	Strand	+
Start	1	End	832
Name	OJ000250_00.0222.C8.o1.ts	Method	TBLASTX:Soybean
Start	12	End	386
GI	none	Score	114
Exons	12..143, 18..143, 161..292, 162..386		

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60908	Strand	+
Start	1	End	832
Name	OJ000250_00.0222.C8.o1.tw	Method	TBLASTX:Wheat
Start	24	End	499
GI	none	Score	97
Exons	24..98, 29..97, 113..499, 114..497, 115..498		

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60908	Strand	+
Start	1	End	832
Name	OJ000250_00.0222.C8.o2.tm	Method	TBLASTX:Maize
Start	509	End	832
GI	none	Score	114
Exons	509..598, 510..599, 510..599, 511..600, 638..781, 644..733, 648..740, 649..741, 788..832, 807..830		

Seq. No.	29499	Seq. ID	OJ000250_00.0222.C8
Gene No.	60909	Strand	
Start	776	End	1087
Name	OJ000250_00.0222.C8.o2.tw	Method	TBLASTX:Wheat
Start	776	End	1087
GI	none	Score	36
Exons	776..820, 776..808, 823..915, 846..917, 926..985, 928..993, 929..985, 944..1087, 1002..1058		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60910	Strand	+

Start	9077	End	9231
Name	OJ000250_00.0222.C10.o4.gs	Method	GENSCAN
Start	9077	End	9231
GI	none	Score	.98
Exons	9077..9231		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60911	Strand	-
Start	1	End	7200
Name	OJ000250_00.0222.C10.o1.np	Method	AAT/NAP
Start	1	End	6615
GI	5257279	Score	6605
Exons	1..135, 1036..1649, 1764..1926, 2143..4857, 5485..5721, 6070..6615		

GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60911	Strand	-
Start	1	End	7200
Name	OJ000250_00.0222.C10.o2.gs	Method	GENSCAN
Start	1114	End	5076
GI	none	Score	.65
Exons	1114..2127, 2143..2840, 2887..3522, 3975..5076		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60911	Strand	-
Start	1	End	7200
Name	OJ000250_00.0222.C10.o1.gp	Method	AAT/GAP
Start	2310	End	3668
GI	4107139	Score	2269
Exons	2310..3668		
GI Descrip.	5257279/dbj BAA81778.1  0.0e+00 (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60911	Strand	-
Start	1	End	7200
Name	OJ000250_00.0222.C10.o3.gs	Method	GENSCAN
Start	5422	End	7200
GI	none	Score	.57
Exons	5422..6129, 6529..6648, 7162..7200		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o7.tm	Method	TBLASTX:Maize
Start	634	End	880
GI	none	Score	64
Exons	634..879, 637..771, 752..880		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o5.tw	Method	TBLASTX:Wheat
Start	688	End	1021
GI	none	Score	103



Exons 688..1020, 797..1021

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o1.tm	Method	TBLASTX:Maize
Start	880	End	1464
GI	none	Score	236
Exons	880..1308, 881..1309, 888..1313, 1306..1464, 1310..1462		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o1.tw	Method	TBLASTX:Wheat
Start	1021	End	1647
GI	none	Score	288
Exons	1021..1647, 1022..1645		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o3.tm	Method	TBLASTX:Maize
Start	1516	End	1807
GI	none	Score	262
Exons	1516..1806, 1520..1807		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o2.ts	Method	TBLASTX:Soybean
Start	1609	End	1863
GI	none	Score	157
Exons	1609..1854, 1610..1855, 1630..1863		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o1.tc	Method	TBLASTX:Cress
Start	1630	End	1947
GI	none	Score	122
Exons	1630..1773, 1631..1771, 1774..1947, 1829..1939		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o3.tw	Method	TBLASTX:Wheat
Start	1654	End	2143
GI	none	Score	298
Exons	1654..2142, 1658..2143		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o2.tw	Method	TBLASTX:Wheat
Start	2143	End	2646
GI	none	Score	33
Exons	2143..2646, 2144..2200, 2225..2260, 2339..2611		

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o2.tm  
 Start 2335  
 GI none  
 Exons 2335..2775, 2348..2776

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Maize  
 End 2776  
 Score 204

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o3.ts  
 Start 2395  
 GI none  
 Exons 2395..2640

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Soybean  
 End 2640  
 Score 204

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o6.tw  
 Start 2647  
 GI none  
 Exons 2647..2844, 2663..2836, 2844..2876, 2858..2905, 2869..2943, 2871..2945

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Wheat  
 End 2945  
 Score 156

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o1.ts  
 Start 2662  
 GI none  
 Exons 2662..2844, 2663..2842, 2858..2905, 2859..3017, 2969..3019, 3023..3055

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Soybean  
 End 3055  
 Score 159

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o4.tm  
 Start 2972  
 GI none  
 Exons 2972..3412

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Maize  
 End 3412  
 Score 371

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o4.tw  
 Start 2996  
 GI none  
 Exons 2996..3478, 3000..3467

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Wheat  
 End 3478  
 Score 243

Seq. No. 29500  
 Gene No. 60912  
 Start 8976  
 Name OJ000250\_00.0222.C10.o5.tm  
 Start 3413  
 GI none

Seq. ID OJ000250\_00.0222.C10  
 Strand -  
 End 9556  
 Method TBLASTX:Maize  
 End 3575  
 Score 147

Exons 3413..3574, 3414..3575

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o7.tw	Method	TBLASTX:Wheat
Start	3649	End	4027
GI	none	Score	74
Exons	3649..3771, 3650..3760, 3805..4026, 3859..3939, 3905..4027		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o6.tm	Method	TBLASTX:Maize
Start	3709	End	4032
GI	none	Score	69
Exons	3709..4032, 3908..3979		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o8.tw	Method	TBLASTX:Wheat
Start	4579	End	4965
GI	none	Score	84
Exons	4579..4725, 4580..4792, 4750..4965		

Seq. No.	29500	Seq. ID	OJ000250_00.0222.C10
Gene No.	60912	Strand	-
Start	8976	End	9556
Name	OJ000250_00.0222.C10.o2.np	Method	AAT/NAP
Start	8976	End	9556
GI	1076211	Score	177
Exons	8976..9556		

GI Descrip. hypothetical protein VSP-3 - Chlamydomonas reinhardtii gi|530876 (L29029) amino acid feature: Rod protein domain, aa 266 .. 468; amino acid feature: globular protein domain, aa 32 .. 265 [Chlamydomonas reinhardtii]

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60913	Strand	+
Start	2659	End	3048
Name	OJ000250_00.0222.C11.o2.gs	Method	GENSCAN
Start	2659	End	3048
GI	none	Score	.51
Exons	2659..3048		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60914	Strand	+
Start	3276	End	7077
Name	OJ000250_00.0222.C11.o1.np	Method	AAT/NAP
Start	3276	End	7077
GI	6063554	Score	517
Exons	3276..3348, 5311..5589, 5707..5929, 6243..6270, 6903..7077		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60914	Strand	+
Start	3276	End	7077
Name	OJ000250_00.0222.C11.o2.gp	Method	AAT/GAP
Start	3928	End	4777
GI	4107138	Score	1106
Exons	3928..4777		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60914	Strand	+
Start	3276	End	7077
Name	OJ000250_00.0222.C11.o3.gp	Method	AAT/GAP
Start	5737	End	6473
GI	101153 1.R1084	Score	718
Exons	5737..5929, 6243..6473		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60914	Strand	+
Start	3276	End	7077
Name	OJ000250_00.0222.C11.o4.gp	Method	AAT/GAP
Start	6489	End	6917
GI	2428185	Score	644
Exons	6489..6917		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60915	Strand	-
Start	1037	End	2518
Name	OJ000250_00.0222.C11.o1.gs	Method	GENSCAN
Start	1037	End	2518
GI	none	Score	.92
Exons	1037..1106, 2400..2518		

Seq. No.	29501	Seq. ID	OJ000250_00.0222.C11
Gene No.	60916	Strand	-
Start	5635	End	10013
Name	OJ000250_00.0222.C11.o3.gs	Method	GENSCAN
Start	5635	End	10013
GI	none	Score	.45
Exons	5635..6078, 6772..6886, 7136..7238, 8105..8281, 8825..8849, 9903..10013		

Seq. No.	29502	Seq. ID	OJ000250_00.0222.C12
Gene No.	60917	Strand	+
Start	130	End	1675
Name	OJ000250_00.0222.C12.o1.np	Method	AAT/NAP
Start	130	End	1675
GI	5852179	Score	295
Exons	130..150, 1138..1348, 1381..1675		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	29503	Seq. ID	OJ000250_00.0222.C13
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Gene No.	60918	Strand	-
Start	677	End	715
Name	OJ000250_00.0222.C13.o1.gs	Method	GENSCAN
Start	677	End	715
GI	none	Score	.75
Exons	677..715		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60919	Strand	+
Start	3398	End	5347
Name	OJ000250_00.0222.C14.o1.np	Method	AAT/NAP
Start	3398	End	5347
GI	4680186	Score	248
Exons	3398..3444, 5142..5347		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o1.gs	Method	GENSCAN
Start	2474	End	13000
GI	none	Score	.45
Exons	2474..2973, 3017..3638, 3959..4023, 5760..5841, 6283..6385, 6391..6959, 7006..7143, 7208..7390, 10394..10438, 11937..12066, 12117..12484, 12824..13000		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o1.gp	Method	AAT/GAP
Start	4894	End	5275
GI	uC-osflcyp033a04b1	Score	647
Exons	4894..5275		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o2.np	Method	AAT/NAP
Start	5740	End	7625
GI	6907087	Score	1278
Exons	5740..5841, 6391..7045, 7255..7625		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o1.tm	Method	TBLASTX:Maize
Start	9010	End	9995
GI	none	Score	268
Exons	9010..9303, 9012..9227, 9223..9294, 9332..9493, 9358..9477, 9494..9742, 9498..9938, 9783..9908, 9969..9995		

Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
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Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o2.tw	Method	TBLASTX:Wheat
Start	9058	End	9321
GI	none	Score	231
Exons	9058..9321, 9084..9320		
Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o3.tw	Method	TBLASTX:Wheat
Start	9331	End	9722
GI	none	Score	133
Exons	9331..9474, 9332..9499, 9497..9649, 9498..9653, 9663..9722		
Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o1.ts	Method	TBLASTX:Soybean
Start	9579	End	10139
GI	none	Score	170
Exons	9579..9929, 9933..10139		
Seq. No.	29504	Seq. ID	OJ000250_00.0222.C14
Gene No.	60920	Strand	-
Start	2474	End	13000
Name	OJ000250_00.0222.C14.o1.tw	Method	TBLASTX:Wheat
Start	9729	End	10172
GI	none	Score	294
Exons	9729..10172, 9836..10081		
Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60921	Strand	+
Start	1	End	458
Name	OJ000250_00.0222.C15.o1.np	Method	AAT/NAP
Start	1	End	458
GI	6063554	Score	212
Exons	1..72, 287..458		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60922	Strand	+
Start	762	End	4586
Name	OJ000250_00.0222.C15.o2.np	Method	AAT/NAP
Start	762	End	4586
GI	4680179	Score	735
Exons	762..841, 1673..2881, 4495..4586		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60922	Strand	+
Start	762	End	4586
Name	OJ000250_00.0222.C15.o2.gp	Method	AAT/GAP
Start	830	End	1101
GI	61605_1.R1084	Score	438

Exons 830..1101  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60922	Strand	+
Start	762	End	4586
Name	OJ000250_00.0222.C15.o1.gs	Method	GENSCAN
Start	1662	End	2772
GI	none	Score	.64
Exons	1662..2109, 2189..2772		

Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60923	Strand	-
Start	1751	End	2238
Name	OJ000250_00.0222.C15.o3.gp	Method	AAT/GAP
Start	1751	End	2238
GI	uC-osflcyp162a07a1	Score	683
Exons	1751..1983, 2083..2238		
GI Descrip.	'4680179/gb AAD27547.1 AF111709_1 2.0e-40 (AF111709) polyprotein [Oryza sativa subsp. indica]'		

Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60924	Strand	-
Start	3961	End	4425
Name	OJ000250_00.0222.C15.o1.tw	Method	TBLASTX:Wheat
Start	1824	End	2171
GI	none	Score	279
Exons	1824..2171, 1832..2002, 2039..2170		

Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60924	Strand	-
Start	3961	End	4425
Name	OJ000250_00.0222.C15.o3.np	Method	AAT/NAP
Start	3881	End	4425
GI	5852179	Score	295
Exons	3881..4113, 4188..4425		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	29505	Seq. ID	OJ000250_00.0222.C15
Gene No.	60924	Strand	-
Start	3961	End	4425
Name	OJ000250_00.0222.C15.o2.gs	Method	GENSCAN
Start	3961	End	4300
GI	none	Score	.95
Exons	3961..4146, 4157..4300		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60925	Strand	+
Start	2668	End	3096
Name	OJ000250_00.0222.C16.o1.gp	Method	AAT/GAP
Start	2668	End	3096
GI	2428185	Score	750
Exons	2668..3096		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60926	Strand	+
Start	4276	End	5429
Name	OJ000250_00.0222.C16.o2.gs	Method	GENSCAN
Start	4276	End	5429
GI	none	Score	.65
Exons	4276..4287, 4497..4574, 4653..5429		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60926	Strand	+
Start	4276	End	5429
Name	OJ000250_00.0222.C16.o1.np	Method	AAT/NAP
Start	4563	End	5426
GI	5042448	Score	1297
Exons	4563..5426		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60927	Strand	+
Start	5681	End	10236
Name	OJ000250_00.0222.C16.o2.np	Method	AAT/NAP
Start	5681	End	10233
GI	4680179	Score	7725
Exons	5681..10233		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60927	Strand	+
Start	5681	End	10236
Name	OJ000250_00.0222.C16.o3.gs	Method	GENSCAN
Start	5681	End	10236
GI	none	Score	.65
Exons	5681..6869, 7107..7342, 7432..10236		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60928	Strand	-
Start	1493	End	3456
Name	OJ000250_00.0222.C16.o1.gs	Method	GENSCAN
Start	1493	End	3456
GI	none	Score	.64
Exons	1493..2047, 2987..3021, 3231..3456		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60929	Strand	-
Start	3648	End	3920
Name	OJ000250_00.0222.C16.o2.gp	Method	AAT/GAP
Start	3648	End	3920
GI	61605_1.R1084	Score	430
Exons	3648..3920		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60930	Strand	
Start	5935	End	6511
Name	OJ000250_00.0222.C16.o7.tw	Method	TBLASTX:Wheat



Start	5935	End	6298
GI	none	Score	307
Exons	5935..6039, 5939..6298, 6064..6297, 6152..6298		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60930	Strand	
Start	5935	End	6511
Name	OJ000250_00.0222.C16.o6.tm	Method	TBLASTX:Maize
Start	6179	End	6511
GI	none	Score	206
Exons	6179..6511, 6179..6463, 6196..6366		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60931	Strand	
Start	6815	End	7234
Name	OJ000250_00.0222.C16.o8.tm	Method	TBLASTX:Maize
Start	6815	End	7135
GI	none	Score	184
Exons	6815..7135, 6868..6960		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60931	Strand	
Start	6815	End	7234
Name	OJ000250_00.0222.C16.o8.tw	Method	TBLASTX:Wheat
Start	6818	End	7234
GI	none	Score	154
Exons	6818..7027, 6868..6966, 7049..7234, 7078..7233		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o4.tw	Method	TBLASTX:Wheat
Start	7396	End	7878
GI	none	Score	544
Exons	7396..7878, 7500..7835		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o5.tm	Method	TBLASTX:Maize
Start	7408	End	7697
GI	none	Score	322
Exons	7408..7695, 7506..7697		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o4.ts	Method	TBLASTX:Soybean
Start	7432	End	7746
GI	none	Score	183
Exons	7432..7746, 7548..7745		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o3.tm	Method	TBLASTX:Maize
Start	7765	End	8265

GI	none	Score	166
Exons	7765..7944, 7771..7905, 7930..8265, 8016..8147		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o1.ts	Method	TBLASTX:Soybean
Start	7819	End	8214
GI	none	Score	51
Exons	7819..7851, 7821..7850, 7837..8214, 7855..7899, 7950..8213		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60932	Strand	
Start	7396	End	8265
Name	OJ000250_00.0222.C16.o5.tw	Method	TBLASTX:Wheat
Start	7927	End	8229
GI	none	Score	402
Exons	7927..8229, 7947..8228		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60933	Strand	
Start	8230	End	8739
Name	OJ000250_00.0222.C16.o2.tw	Method	TBLASTX:Wheat
Start	8230	End	8739
GI	none	Score	628
Exons	8230..8739, 8262..8573, 8308..8655		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60933	Strand	
Start	8230	End	8739
Name	OJ000250_00.0222.C16.o3.ts	Method	TBLASTX:Soybean
Start	8236	End	8481
GI	none	Score	199
Exons	8236..8481		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60933	Strand	
Start	8230	End	8739
Name	OJ000250_00.0222.C16.o2.tm	Method	TBLASTX:Maize
Start	8302	End	8667
GI	none	Score	483
Exons	8302..8655, 8304..8570, 8356..8667, 8463..8660		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o3.tw	Method	TBLASTX:Wheat
Start	8742	End	9222
GI	none	Score	128
Exons	8742..9191, 8743..9222, 8776..9216, 8967..9221		
Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o2.ts	Method	TBLASTX:Soybean
Start	9010	End	9270
GI	none	Score	289

Exons 9010..9270, 9015..9269

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o4.tm	Method	TBLASTX:Maize
Start	9069	End	9360
GI	none	Score	380
Exons	9069..9356, 9070..9360		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o1.tw	Method	TBLASTX:Wheat
Start	9229	End	9855
GI	none	Score	731
Exons	9229..9855, 9231..9854		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o1.tm	Method	TBLASTX:Maize
Start	9409	End	10008
GI	none	Score	226
Exons	9409..9570, 9417..9563, 9568..10008, 9570..9995		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o6.tw	Method	TBLASTX:Wheat
Start	9855	End	10223
GI	none	Score	367
Exons	9855..9926, 9856..10188, 9883..9963, 9948..10064, 10006..10167, 10170..10223		

Seq. No.	29506	Seq. ID	OJ000250_00.0222.C16
Gene No.	60934	Strand	
Start	8742	End	10223
Name	OJ000250_00.0222.C16.o7.tm	Method	TBLASTX:Maize
Start	10018	End	10209
GI	none	Score	192
Exons	10018..10209		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60935	Strand	+
Start	1	End	13050
Name	OJ000250_00.0222.C17.o4.np	Method	AAT/NAP
Start	1	End	13050
GI	1947160	Score	123
Exons	1..75, 12392..12493, 12681..13050		
GI Descrip.	(AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.gs	Method	GENSCAN

Start	423	End	3108
GI	none	Score	.67
Exons	423..802, 1498..1543, 2611..2788, 3056..3108		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.np	Method	AAT/NAP
Start	1454	End	13050
GI	4680183	Score	174
Exons	1454..1543, 2148..2218, 12985..13050		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o2.np	Method	AAT/NAP
Start	3730	End	4105
GI	3915131	Score	240
Exons	3730..4105		
GI Descrip.	THIOREDOXIN H-TYPE (TRX-H) (PHLOEM SAP 13 KD PROTEIN-1) gi 426442 dbj BAA04864  (D21836) thioredoxin h [Oryza sativa] gi 454882 dbj BAA05546.1  (D26547) rice thioredoxin h [Oryza sativa] gi 1930072 (U92541) thioredoxin h [Oryza sativa]		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o2.gs	Method	GENSCAN
Start	3734	End	12379
GI	none	Score	.42
Exons	3734..4128, 4601..4644, 4817..6052, 8001..8976, 9903..10007, 11729..11781, 12194..12220, 12303..12379		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.tw	Method	TBLASTX:Wheat
Start	3752	End	4090
GI	none	Score	59
Exons	3752..3853, 3774..3869, 3902..4090, 3902..4090		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o2.ts	Method	TBLASTX:Soybean
Start	3752	End	4126
GI	none	Score	78
Exons	3752..3853, 3902..4126, 3936..4097		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.tm	Method	TBLASTX:Maize
Start	3755	End	4093
GI	none	Score	70
Exons	3755..3853, 3756..3851, 3902..4084, 3902..4093, 3921..4091		

Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.tc	Method	TBLASTX:Cress
Start	3761	End	4117
GI	none	Score	103
Exons	3761..3853, 3902..4117, 3921..4103		
Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.gp	Method	AAT/GAP
Start	3865	End	4280
GI	uC-osf1M202075h01b1	Score	808
Exons	3865..4280		
GI Descrip.	'3915131/sp Q42443 THIH_ORYSA 8.0e-13 THIOREDOXIN H-TYPE (TRX-H) (PHLOEM SAP 13 KD PROTEIN-1) >gi_426442_dbj_BAA04864_ (D21836) thioredoxin h [Oryza sativa] >gi_454882_dbj_BAA05546_ (D26547) rice thioredoxin h [Oryza sativa] >gi_1930072 (U92541) thioredoxin h [Oryza sativa]'		
Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o1.ts	Method	TBLASTX:Soybean
Start	5809	End	6501
GI	none	Score	66
Exons	5809..5967, 5971..6159, 6226..6303, 6227..6304, 6337..6501		
Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o2.tm	Method	TBLASTX:Maize
Start	5809	End	6150
GI	none	Score	82
Exons	5809..6150, 5900..6016		
Seq. No.	29507	Seq. ID	OJ000250_00.0222.C17
Gene No.	60936	Strand	-
Start	423	End	13050
Name	OJ000250_00.0222.C17.o3.np	Method	AAT/NAP
Start	5941	End	8233
GI	2792216	Score	640
Exons	5941..6535, 8001..8233		
GI Descrip.	(AF032686) NBS-LRR type resistance protein [Hordeum vulgare]		
Seq. No.	29508	Seq. ID	OJ000250_00.0222.C19
Gene No.	60937	Strand	+
Start	358	End	786
Name	OJ000250_00.0222.C19.o1.np	Method	AAT/NAP
Start	358	End	786
GI	6815095	Score	33
Exons	358..424, 477..786		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	29508	Seq. ID	OJ000250_00.0222.C19

Gene No.	60938	Strand	-
Start	156	End	646
Name	OJ000250_00.0222.C19.o1.gs	Method	GENSCAN
Start	156	End	646
GI	none	Score	.66
Exons	156..221, 350..390, 433..469, 528..646		

Seq. No.	29509	Seq. ID	OJ000250_00.0222.C20
Gene No.	60939	Strand	+
Start	15	End	859
Name	OJ000250_00.0222.C20.o1.gs	Method	GENSCAN
Start	15	End	859
GI	none	Score	.72
Exons	15..42, 834..859		

Seq. No.	29509	Seq. ID	OJ000250_00.0222.C20
Gene No.	60940	Strand	-
Start	1711	End	1989
Name	OJ000250_00.0222.C20.o2.gs	Method	GENSCAN
Start	1711	End	1989
GI	none	Score	.93
Exons	1711..1989		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60941	Strand	+
Start	125	End	841
Name	OJ000250_44.0301.C1.o1.gs	Method	GENSCAN
Start	125	End	841
GI	none	Score	.88
Exons	125..193, 689..841		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o2.gs	Method	GENSCAN
Start	1392	End	7604
GI	none	Score	.49
Exons	1392..1796, 2631..2931, 3223..3644, 4523..5324, 5446..6441, 6454..6639, 7418..7571, 7592..7604		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o1.tm	Method	TBLASTX:Maize
Start	4099	End	4801
GI	none	Score	72
Exons	4099..4311, 4100..4210, 4101..4634, 4110..4454, 4111..4635, 4348..4650, 4640..4801, 4641..4793, 4651..4794		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o1.np	Method	AAT/NAP
Start	4128	End	7217
GI	6630685	Score	4438
Exons	4128..6855, 7146..7217		

GI Descrip. (AP000969) Similar to copia-type pol polyprotein. (AF105716)

[Oryza sativa]

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o2.ts	Method	TBLASTX:Soybean
Start	4143	End	4783
GI	none	Score	106
Exons	4143..4376, 4395..4634, 4396..4560, 4640..4783		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o2.tc	Method	TBLASTX:Cress
Start	4146	End	4601
GI	none	Score	77
Exons	4146..4391, 4195..4374, 4377..4511, 4515..4601		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o5.tw	Method	TBLASTX:Wheat
Start	4179	End	4595
GI	none	Score	52
Exons	4179..4367, 4386..4595, 4411..4491		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o3.tm	Method	TBLASTX:Maize
Start	4916	End	5315
GI	none	Score	424
Exons	4916..5308, 4917..5315		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o1.ts	Method	TBLASTX:Soybean
Start	5154	End	5741
GI	5509260	Score	136
Exons	5154..5315, 5156..5308, 5325..5516, 5326..5517, 5511..5651, 5526..5741		

GI Descrip. -

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o2.tw	Method	TBLASTX:Wheat
Start	5162	End	5600
GI	none	Score	59
Exons	5162..5290, 5168..5308, 5181..5315, 5337..5495, 5343..5492, 5350..5493, 5526..5600		

Seq. No.	29510	Seq. ID	OJ000250_44.0301.C1
Gene No.	60942	Strand	-
Start	1392	End	9133
Name	OJ000250_44.0301.C1.o5.tm	Method	TBLASTX:Maize

Start 5449  
 GI none  
 Exons 5449..5739, 5451..5768

End 5768  
 Score 273

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o2.tm  
 Start 5775  
 GI none  
 Exons 5775..6575, 5902..6441, 5907..6527, 6574..6642, 6576..6647

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Maize  
 End 6647  
 Score 506

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o3.tw  
 Start 5880  
 GI none  
 Exons 5880..5960, 5971..6135, 5982..6146, 5985..6149, 6135..6224, 6138..6224

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Wheat  
 End 6224  
 Score 102

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o3.ts  
 Start 6006  
 GI none  
 Exons 6006..6440, 6090..6443, 6277..6444

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Soybean  
 End 6444  
 Score 105

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o1.tc  
 Start 6009  
 GI none  
 Exons 6009..6431

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Cress  
 End 6431  
 Score 229

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o1.tw  
 Start 6312  
 GI none  
 Exons 6312..6596, 6313..6438, 6315..6584, 6520..6600, 6581..6625, 6600..6623, 6629..6703, 6636..6884, 6652..6876

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Wheat  
 End 6884  
 Score 109

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o4.tm  
 Start 6648  
 GI none  
 Exons 6648..6920, 6649..6924, 6924..7043, 6928..7035

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Maize  
 End 7043  
 Score 262

Seq. No. 29510  
 Gene No. 60942  
 Start 1392

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133



Name OJ000250\_44.0301.C1.o4.tw  
 Start 6951  
 GI none  
 Exons 6951..7262, 7051..7176

Method TBLASTX:Wheat  
 End 7262  
 Score 69

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o6.tm  
 Start 7044  
 GI none  
 Exons 7044..7286, 7045..7281, 7231..7296, 7306..7383, 7310..7384, 7311..7385

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Maize  
 End 7385  
 Score 131

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o2.np  
 Start 7253  
 GI 4416301  
 Exons 7253..7416, 7885..8565, 8596..9133  
 GI Descrip. (AF105716) gag protein [Zea mays]

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method AAT/NAP  
 End 9133  
 Score 412

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o4.np  
 Start 7690  
 GI 3645898  
 Exons 7690..7904, 7990..9133  
 GI Descrip. (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method AAT/NAP  
 End 9133  
 Score 422

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o3.np  
 Start 7908  
 GI 4416301  
 Exons 7908..8565, 8596..9133  
 GI Descrip. (AF105716) gag protein [Zea mays]

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method AAT/NAP  
 End 9133  
 Score 410

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o3.gs  
 Start 8113  
 GI none  
 Exons 8113..9084

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method GENSCAN  
 End 9084  
 Score .94

Seq. No. 29510  
 Gene No. 60942  
 Start 1392  
 Name OJ000250\_44.0301.C1.o7.tm  
 Start 8773  
 GI none  
 Exons 8773..9021, 8807..9022

Seq. ID OJ000250\_44.0301.C1  
 Strand -  
 End 9133  
 Method TBLASTX:Maize  
 End 9022  
 Score 82

Seq. No.	29511	Seq. ID	OJ000250_44.0301.C3
Gene No.	60943	Strand	-
Start	1	End	1139
Name	OJ000250_44.0301.C3.o1.np	Method	AAT/NAP
Start	1	End	786
GI	5441880	Score	254
Exons	1..20, 482..786		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	29511	Seq. ID	OJ000250_44.0301.C3
Gene No.	60943	Strand	-
Start	1	End	1139
Name	OJ000250_44.0301.C3.o1.gs	Method	GENSCAN
Start	14	End	1139
GI	none	Score	.43
Exons	14..175, 309..461, 486..901, 1051..1139		

Seq. No.	29512	Seq. ID	OJ000250_44.0301.C4
Gene No.	60944	Strand	-
Start	161	End	442
Name	OJ000250_44.0301.C4.o1.gs	Method	GENSCAN
Start	161	End	442
GI	none	Score	.85
Exons	161..442		

Seq. No.	29512	Seq. ID	OJ000250_44.0301.C4
Gene No.	60945	Strand	-
Start	718	End	1284
Name	OJ000250_44.0301.C4.o1.gp	Method	AAT/GAP
Start	718	End	1284
GI	4879016	Score	898
Exons	718..1284		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	29512	Seq. ID	OJ000250_44.0301.C4
Gene No.	60946	Strand	-
Start	1701	End	4012
Name	OJ000250_44.0301.C4.o2.gs	Method	GENSCAN
Start	1701	End	4012
GI	none	Score	.68
Exons	1701..1838, 2052..2136, 2566..2692, 3011..3127, 3173..3271, 3955..4012		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60947	Strand	+
Start	12367	End	15396
Name	OJ000250_44.0301.C5.o1.np	Method	AAT/NAP
Start	12367	End	15396
GI	6691191	Score	2888
Exons	12367..15396		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60948	Strand	+
Start	22066	End	31251
Name	OJ000250_44.0301.C5.o2.gp	Method	AAT/GAP
Start	22066	End	31251
GI	LIB3477-003-P1-K1-E9	Score	120
Exons	22066..22087, 31167..31251		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60948	Strand	+
Start	22066	End	31251
Name	OJ000250_44.0301.C5.o5.gs	Method	GENSCAN
Start	22431	End	24977
GI	none	Score	.58
Exons	22431..22548, 23829..23871, 23914..24298, 24317..24424, 24873..24977		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60949	Strand	+
Start	38661	End	38916
Name	OJ000250_44.0301.C5.o4.gp	Method	AAT/GAP
Start	38661	End	38916
GI	61605_3.R1084	Score	437
Exons	38661..38916		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60950	Strand	+
Start	39112	End	40217
Name	OJ000250_44.0301.C5.o10.gs	Method	GENSCAN
Start	39112	End	40217
GI	none	Score	.83
Exons	39112..39307, 39511..39662, 39822..40217		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60951	Strand	+
Start	41768	End	42130
Name	OJ000250_44.0301.C5.o6.gp	Method	AAT/GAP
Start	41768	End	42130
GI	uC-osflcyp162a07a1	Score	421
Exons	41768..41928, 42028..42130		
GI Descrip.	'4680179/gb AAD27547.1 AF111709_1 2.0e-40 (AF111709) polyprotein [Oryza sativa subsp. indica]'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60952	Strand	+
Start	42761	End	43434
Name	OJ000250_44.0301.C5.o7.gp	Method	AAT/GAP
Start	42761	End	43434
GI	LIB3475-004-P1-K2-A5	Score	417
Exons	42761..42854, 43271..43434		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60953	Strand	+
Start	44273	End	50565
Name	OJ000250_44.0301.C5.o6.np	Method	AAT/NAP
Start	44273	End	49159
GI	5852180	Score	342
Exons	44273..44311, 47680..47742, 48722..49159		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60953	Strand	+
Start	44273	End	50565
Name	OJ000250_44.0301.C5.o13.gs	Method	GENSCAN
Start	48949	End	50565
GI	none	Score	.4
Exons	48949..49181, 50475..50565		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60954	Strand	+
Start	51938	End	55636
Name	OJ000250_44.0301.C5.o14.gs	Method	GENSCAN
Start	51938	End	55636
GI	none	Score	.67
Exons	51938..52202, 52967..53100, 53785..54042, 54931..55084, 55530..55636		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60954	Strand	+
Start	51938	End	55636
Name	OJ000250_44.0301.C5.o8.np	Method	AAT/NAP
Start	54931	End	55136
GI	4680186	Score	230
Exons	54931..55136		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60955	Strand	-
Start	3892	End	4378
Name	OJ000250_44.0301.C5.o1.gp	Method	AAT/GAP
Start	3892	End	4378
GI	uC-osf1M202095f12b1	Score	930
Exons	3892..4378		
GI Descrip.	'4454031/emb CAA23028.1  1.0e-10 (AL035394) putative protein [Arabidopsis thaliana]'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60956	Strand	-
Start	6813	End	8373
Name	OJ000250_44.0301.C5.o2.gs	Method	GENSCAN
Start	6813	End	8373
GI	none	Score	.65
Exons	6813..6898, 7365..7494, 8053..8373		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60957	Strand	-
Start	26262	End	27127

Name	OJ000250_44.0301.C5.o6.gs	Method	GENSCAN
Start	26262	End	27127
GI	none	Score	.43
Exons	26262..26399, 26602..26900, 26917..27127		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60958	Strand	-
Start	29136	End	29584
Name	OJ000250_44.0301.C5.o7.gs	Method	GENSCAN
Start	29136	End	29584
GI	none	Score	.75
Exons	29136..29436, 29460..29584		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60959	Strand	-
Start	32566	End	33087
Name	OJ000250_44.0301.C5.o3.gp	Method	AAT/GAP
Start	32566	End	33087
GI	LIB3434-038-P1-K1-F1	Score	780
Exons	32566..33087		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o2.np	Method	AAT/NAP
Start	35278	End	42140
GI	4680179	Score	4486
Exons	35278..38660, 41326..42140		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o9.gs	Method	GENSCAN
Start	35302	End	37941
GI	none	Score	.47
Exons	35302..35998, 36311..36893, 37524..37941		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o5.np	Method	AAT/NAP
Start	39366	End	45123
GI	4680179	Score	633
Exons	39366..39401, 41301..42082, 44251..44436, 44930..45123		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o5.gp	Method	AAT/GAP
Start	39413	End	40112
GI	101153_1.R1084	Score	600
Exons	39413..39605, 39923..40112		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa		

indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o3.np	Method	AAT/NAP
Start	40243	End	44216
GI	4539658	Score	196
Exons	40243..40273, 42971..43150, 43192..43313, 44158..44216		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o4.np	Method	AAT/NAP
Start	40434	End	43306
GI	4539658	Score	191
Exons	40434..40504, 42976..43150, 43192..43306		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o12.gs	Method	GENSCAN
Start	44839	End	47795
GI	none	Score	.42
Exons	44839..45471, 45499..45708, 45768..45960, 46554..46623, 47720..47795		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60960	Strand	-
Start	35302	End	47973
Name	OJ000250_44.0301.C5.o8.gp	Method	AAT/GAP
Start	47592	End	47973
GI	uC-osflcyp033a04b1	Score	663
Exons	47592..47973		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60961	Strand	-
Start	49414	End	51860
Name	OJ000250_44.0301.C5.o7.np	Method	AAT/NAP
Start	49414	End	51860
GI	213591	Score	79
Exons	49414..49512, 51736..51860		
GI Descrip.	(M62415) HPLC6 [Pseudopleuronectes americanus]		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o4.tm	Method	TBLASTX:Maize
Start	3937	End	8310
GI	none	Score	336
Exons	3937..4152, 3938..4153, 3950..4153, 7352..7411, 7355..7495,		

7363..7497, 7363..7500, 7973..8305, 7990..8142, 8203..8310

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o11.tw	Method	TBLASTX:Wheat
Start	11127	End	11477
GI	none	Score	206
Exons	11127..11477		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o2.ts	Method	TBLASTX:Soybean
Start	12652	End	37938
GI	none	Score	404
Exons	12652..13077, 12678..12926, 12748..13065, 37804..37938		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o7.tw	Method	TBLASTX:Wheat
Start	12652	End	12942
GI	none	Score	259
Exons	12652..12942, 12669..12938		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o3.tm	Method	TBLASTX:Maize
Start	12940	End	38046
GI	none	Score	223
Exons	12940..13281, 37579..38046		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o5.tw	Method	TBLASTX:Wheat
Start	12943	End	38115
GI	none	Score	167
Exons	12943..13149, 37717..37995, 37717..38115, 37808..38104		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o4.tw	Method	TBLASTX:Wheat
Start	13153	End	37716
GI	none	Score	540
Exons	13153..13584, 13155..13205, 13174..13560, 13269..13574, 37295..37549, 37297..37716		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o1.ts	Method	TBLASTX:Soybean
Start	13297	End	37692
GI	none	Score	212

Exons 13297..13584, 13386..13556, 37297..37656, 37298..37585,  
37327..37662, 37660..37692, 37661..37690

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o6.tm	Method	TBLASTX:Maize
Start	13318	End	37563
GI	none	Score	266
Exons	13318..13722, 13461..13721, 37216..37563, 37217..37561		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o6.ts	Method	TBLASTX:Soybean
Start	13585	End	37287
GI	none	Score	212
Exons	13585..13812, 13590..13793, 37150..37287		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o9.tw	Method	TBLASTX:Wheat
Start	13589	End	13746
GI	none	Score	225
Exons	13589..13717, 13590..13745, 13591..13746		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o2.tm	Method	TBLASTX:Maize
Start	13723	End	37209
GI	none	Score	200
Exons	13723..14034, 36856..37209, 36857..37207		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o2.tw	Method	TBLASTX:Wheat
Start	13756	End	37281
GI	none	Score	161
Exons	13756..14034, 36778..37281, 36857..37273		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o9.ts	Method	TBLASTX:Soybean
Start	13909	End	36984
GI	none	Score	195
Exons	13909..14043, 13909..14025, 13923..14030, 36859..36984		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o1.tc	Method	TBLASTX:Cress
Start	14086	End	36504
GI	none	Score	59



Exons	14086..14145, 14167..14469, 36427..36504	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o12.tw	Method TBLASTX:Wheat
Start	14131	End 14508
GI	none	Score 46
Exons	14131..14199, 14191..14370, 14440..14508	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o3.tw	Method TBLASTX:Wheat
Start	14371	End 36778
GI	none	Score 58
Exons	14371..14436, 36298..36777, 36302..36778	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o4.ts	Method TBLASTX:Soybean
Start	14490	End 36225
GI	none	Score 81
Exons	14490..14531, 14491..14532, 14529..14813, 14530..14814, 36022..36225	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o1.tw	Method TBLASTX:Wheat
Start	14674	End 36267
GI	none	Score 166
Exons	14674..14973, 35656..36267, 35657..36256	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o1.tm	Method TBLASTX:Maize
Start	14752	End 36099
GI	none	Score 92
Exons	14752..14898, 35515..35943, 35516..35944, 35803..35955, 35941..36099, 35945..36097	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o3.ts	Method TBLASTX:Soybean
Start	14815	End 35997
GI	none	Score 282
Exons	14815..15120, 14817..15203, 15214..15303, 35881..35997	
Seq. No.	29513	Seq. ID OJ000250_44.0301.C5
Gene No.	60962	Strand -
Start	55529	End 56793
Name	OJ000250_44.0301.C5.o7.tm	Method TBLASTX:Maize
Start	26239	End 26456

GI	none	Score	97
Exons	26239..26307, 26243..26305, 26313..26456, 26315..26407		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o8.ts	Method	TBLASTX:Soybean
Start	26239	End	26456
GI	none	Score	95
Exons	26239..26307, 26243..26305, 26313..26456, 26314..26385, 26315..26389		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o2.tc	Method	TBLASTX:Cress
Start	26635	End	27160
GI	none	Score	129
Exons	26635..26826, 26639..26755, 27026..27103, 27110..27160		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o7.ts	Method	TBLASTX:Soybean
Start	26645	End	26826
GI	none	Score	102
Exons	26645..26821, 26647..26826		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o6.tw	Method	TBLASTX:Wheat
Start	35323	End	35652
GI	none	Score	102
Exons	35323..35652, 35432..35641		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o5.tm	Method	TBLASTX:Maize
Start	36151	End	36442
GI	none	Score	227
Exons	36151..36441, 36155..36442		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o5.ts	Method	TBLASTX:Soybean
Start	36244	End	36490
GI	none	Score	110
Exons	36244..36489, 36245..36490		

Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o10.tm	Method	TBLASTX:Maize
Start	38050	End	38212

GI	none	Score	142
Exons	38050..38211, 38051..38212		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o10.tw	Method	TBLASTX:Wheat
Start	38287	End	38661
GI	none	Score	49
Exons	38287..38409, 38293..38409, 38443..38661, 38511..38612, 38543..38647		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o9.tm	Method	TBLASTX:Maize
Start	38347	End	38661
GI	none	Score	79
Exons	38347..38661, 38522..38623		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o8.tm	Method	TBLASTX:Maize
Start	41687	End	44115
GI	none	Score	89
Exons	41687..41947, 41763..41927, 43816..44115		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o8.tw	Method	TBLASTX:Wheat
Start	41687	End	44115
GI	none	Score	142
Exons	41687..41953, 41757..41927, 41758..41955, 43816..44115, 43921..44088		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o9.np	Method	AAT/NAP
Start	55529	End	56793
GI	6907087	Score	453
Exons	55529..55630, 56154..56793		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29513	Seq. ID	OJ000250_44.0301.C5
Gene No.	60962	Strand	-
Start	55529	End	56793
Name	OJ000250_44.0301.C5.o15.gs	Method	GENSCAN
Start	55763	End	56481
GI	none	Score	.63
Exons	55763..55828, 56154..56340, 56342..56481		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6

Gene No.	60963	Strand	+
Start	448	End	1732
Name	OJ000250_44.0301.C6.o1.gs	Method	GENSCAN
Start	448	End	1677
GI	none	Score	.72
Exons	448..617, 702..888, 1094..1180, 1432..1677		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60963	Strand	+
Start	448	End	1732
Name	OJ000250_44.0301.C6.o1.np	Method	AAT/NAP
Start	1553	End	1732
GI	4680186	Score	214
Exons	1553..1732		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60964	Strand	+
Start	4942	End	9995
Name	OJ000250_44.0301.C6.o3.np	Method	AAT/NAP
Start	4942	End	9995
GI	4680186	Score	291
Exons	4942..5015, 8900..8955, 9794..9995		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60965	Strand	+
Start	11111	End	13750
Name	OJ000250_44.0301.C6.o3.gs	Method	GENSCAN
Start	11111	End	13750
GI	none	Score	.98
Exons	11111..11134, 12267..12457, 12587..12770, 12912..13031, 13249..13521, 13622..13750		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o2.gs	Method	GENSCAN
Start	2539	End	9638
GI	none	Score	.44
Exons	2539..2917, 3740..4016, 4056..4806, 4963..5973, 6438..6681, 6704..7413, 8063..8665, 9594..9638		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o2.np	Method	AAT/NAP
Start	3588	End	7599
GI	4680179	Score	3916
Exons	3588..6441, 6517..7599		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o6.tw	Method	TBLASTX:Wheat
Start	3633	End	3945

GI	none	Score	96
Exons	3633..3773, 3769..3945, 3808..3942		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o1.tm	Method	TBLASTX:Maize
Start	3793	End	4317
GI	none	Score	243
Exons	3793..4233, 3809..4231, 4231..4317, 4238..4309		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o3.tw	Method	TBLASTX:Wheat
Start	3946	End	4318
GI	none	Score	231
Exons	3946..4317, 3947..4318		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o8.tw	Method	TBLASTX:Wheat
Start	4321	End	4542
GI	none	Score	85
Exons	4321..4542, 4324..4521, 4361..4534		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o1.tw	Method	TBLASTX:Wheat
Start	4543	End	5046
GI	none	Score	354
Exons	4543..5046, 4577..5014		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o2.tm	Method	TBLASTX:Maize
Start	4612	End	4975
GI	none	Score	162
Exons	4612..4974, 4621..4974, 4625..4975		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o2.ts	Method	TBLASTX:Soybean
Start	4795	End	5037
GI	none	Score	97
Exons	4795..5037, 4796..5023		
Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o4.tm	Method	TBLASTX:Maize
Start	4981	End	5325
GI	none	Score	87

Exons 4981..5082, 5063..5191, 5071..5325

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o1.ts	Method	TBLASTX:Soybean
Start	5050	End	5454
GI	none	Score	181
Exons	5050..5424, 5050..5418, 5422..5454, 5423..5452		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o4.tw	Method	TBLASTX:Wheat
Start	5068	End	5346
GI	none	Score	239
Exons	5068..5346, 5069..5335, 5074..5346		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o3.tm	Method	TBLASTX:Maize
Start	5341	End	5808
GI	none	Score	72
Exons	5341..5808, 5374..5718		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o2.tw	Method	TBLASTX:Wheat
Start	5395	End	5878
GI	none	Score	207
Exons	5395..5877, 5398..5760, 5438..5878		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o7.tw	Method	TBLASTX:Wheat
Start	5995	End	6415
GI	none	Score	74
Exons	5995..6180, 6065..6160, 6205..6414, 6272..6415		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o5.tw	Method	TBLASTX:Wheat
Start	6772	End	7123
GI	none	Score	102
Exons	6772..7122, 6929..7123		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o5.tm	Method	TBLASTX:Maize
Start	6817	End	7122
GI	none	Score	86
Exons	6817..7122, 6944..7108		

Seq. No.	29514	Seq. ID	OJ000250_44.0301.C6
Gene No.	60966	Strand	-
Start	2539	End	9638
Name	OJ000250_44.0301.C6.o9.tw	Method	TBLASTX:Wheat
Start	7156	End	7356
GI	none	Score	57
Exons	7156..7248, 7157..7354, 7159..7356		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o1.gs	Method	GENSCAN
Start	85	End	3350
GI	none	Score	.88
Exons	85..162, 549..690, 934..2683, 2816..3350		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o1.np	Method	AAT/NAP
Start	1986	End	5015
GI	6691191	Score	2850
Exons	1986..5015		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o2.gs	Method	GENSCAN
Start	4005	End	6252
GI	none	Score	.58
Exons	4005..4931, 5491..6252		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o2.np	Method	AAT/NAP
Start	5671	End	10337
GI	5852181	Score	103
Exons	5671..5723, 8855..9086, 10312..10337		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o3.gs	Method	GENSCAN
Start	9834	End	13749
GI	none	Score	.86
Exons	9834..9896, 10544..11049, 11179..11523, 11751..12141, 12282..12428, 12430..12523, 13334..13749		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60967	Strand	+
Start	85	End	15132
Name	OJ000250_44.0301.C7.o3.np	Method	AAT/NAP
Start	10576	End	15132

GI 4467124 Score 508  
 Exons 10576..11049, 11179..11545, 11668..12150, 12246..12382,  
 13097..13210, 13334..13592, 15105..15132  
 GI Descrip. (AL035538) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60968 Strand +  
 Start 16095 End 16740  
 Name OJ000250\_44.0301.C7.o4.np Method AAT/NAP  
 Start 16090 End 16740  
 GI 6063557 Score 386  
 Exons 16090..16274, 16522..16740  
 GI Descrip. (AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60968 Strand +  
 Start 16095 End 16740  
 Name OJ000250\_44.0301.C7.o5.gs Method GENSCAN  
 Start 16095 End 16634  
 GI none Score .6  
 Exons 16095..16230, 16495..16634

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60969 Strand -  
 Start 14752 End 15182  
 Name OJ000250\_44.0301.C7.o7.tw Method TBLASTX:Wheat  
 Start 744 End 1097  
 GI none Score 202  
 Exons 744..1097

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60969 Strand -  
 Start 14752 End 15182  
 Name OJ000250\_44.0301.C7.o2.ts Method TBLASTX:Soybean  
 Start 2271 End 2696  
 GI none Score 394  
 Exons 2271..2696, 2297..2545

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60969 Strand -  
 Start 14752 End 15182  
 Name OJ000250\_44.0301.C7.o2.tw Method TBLASTX:Wheat  
 Start 2271 End 2675  
 GI none Score 412  
 Exons 2271..2675, 2288..2557

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60969 Strand -  
 Start 14752 End 15182  
 Name OJ000250\_44.0301.C7.o3.tm Method TBLASTX:Maize  
 Start 2559 End 2921  
 GI none Score 208  
 Exons 2559..2921

Seq. No. 29515 Seq. ID OJ000250\_44.0301.C7  
 Gene No. 60969 Strand -  
 Start 14752 End 15182



Name OJ000250\_44.0301.C7.o1.tw  
 Start 2772  
 GI none  
 Exons 2772..3203, 2784..3179

Method TBLASTX:Wheat  
 End 3203  
 Score 540

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o2.tm  
 Start 2937  
 GI none  
 Exons 2937..3344

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Maize  
 End 3344  
 Score 258

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o4.ts  
 Start 3063  
 GI none  
 Exons 3063..3128, 3129..3416, 3140..3418

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Soybean  
 End 3418  
 Score 56

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o4.tw  
 Start 3203  
 GI none  
 Exons 3203..3508, 3207..3509

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Wheat  
 End 3509  
 Score 363

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o4.tm  
 Start 3375  
 GI none  
 Exons 3375..3653, 3413..3547

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Maize  
 End 3653  
 Score 193

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o5.tw  
 Start 3522  
 GI none  
 Exons 3522..3722, 3525..3647, 3614..3697, 3714..3809, 3789..3992

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Wheat  
 End 3992  
 Score 169

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o6.ts  
 Start 3528  
 GI none  
 Exons 3528..3662, 3528..3644

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Soybean  
 End 3662  
 Score 185

Seq. No. 29515  
 Gene No. 60969  
 Start 14752  
 Name OJ000250\_44.0301.C7.o1.tc

Seq. ID OJ000250\_44.0301.C7  
 Strand -  
 End 15182  
 Method TBLASTX:Cress

Start	3705	End	4088
GI	none	Score	61
Exons	3705..3782, 3786..4088, 3938..4087		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o3.ts	Method	TBLASTX:Soybean
Start	4109	End	4433
GI	none	Score	81
Exons	4109..4150, 4110..4151, 4148..4432, 4149..4433		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o6.tw	Method	TBLASTX:Wheat
Start	4110	End	4421
GI	none	Score	280
Exons	4110..4421, 4115..4345		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o1.ts	Method	TBLASTX:Soybean
Start	4434	End	4922
GI	none	Score	388
Exons	4434..4823, 4436..4822, 4832..4891, 4833..4922		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o3.tw	Method	TBLASTX:Wheat
Start	4440	End	4826
GI	none	Score	399
Exons	4440..4796, 4446..4826, 4502..4825		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o1.tm	Method	TBLASTX:Maize
Start	11255	End	11796
GI	none	Score	333
Exons	11255..11530, 11257..11529, 11671..11796		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o2.tc	Method	TBLASTX:Cress
Start	11255	End	11530
GI	none	Score	215
Exons	11255..11530, 11347..11427, 11354..11485		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o5.ts	Method	TBLASTX:Soybean
Start	11258	End	11524

GI	none	Score	231
Exons	11258..11524, 11258..11509, 11308..11514		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o8.tw	Method	TBLASTX:Wheat
Start	11668	End	12033
GI	none	Score	202
Exons	11668..12033		

Seq. No.	29515	Seq. ID	OJ000250_44.0301.C7
Gene No.	60969	Strand	-
Start	14752	End	15182
Name	OJ000250_44.0301.C7.o4.gs	Method	GENSCAN
Start	14752	End	15182
GI	none	Score	.85
Exons	14752..14909, 14972..15182		

Seq. No.	29516	Seq. ID	OJ000250_44.0301.C8
Gene No.	60970	Strand	+
Start	1349	End	1766
Name	OJ000250_44.0301.C8.o1.gp	Method	AAT/GAP
Start	1349	End	1766
GI	uC-osroM202011h09b1	Score	800
Exons	1349..1766		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	29516	Seq. ID	OJ000250_44.0301.C8
Gene No.	60971	Strand	-
Start	337	End	2366
Name	OJ000250_44.0301.C8.o1.gs	Method	GENSCAN
Start	337	End	2366
GI	none	Score	.8
Exons	337..911, 1725..1836, 2277..2366		

Seq. No.	29517	Seq. ID	OJ000250_44.0301.C9
Gene No.	60972	Strand	-
Start	1100	End	1240
Name	OJ000250_44.0301.C9.o1.gs	Method	GENSCAN
Start	1100	End	1240
GI	none	Score	.77
Exons	1100..1240		

Seq. No.	29518	Seq. ID	OJ000250_44.0301.C14
Gene No.	60973	Strand	-
Start	1	End	448
Name	OJ000250_44.0301.C14.o1.gs	Method	GENSCAN
Start	31	End	448
GI	none	Score	.45
Exons	31..448		

Seq. No.	29519	Seq. ID	OJ000250_44.0301.C15
Gene No.	60974	Strand	-
Start	448	End	657

Name	OJ000250_44.0301.C15.o1.gs	Method	GENSCAN
Start	448	End	657
GI	none	Score	.55
Exons	448..657		
Seq. No.	29519	Seq. ID	OJ000250_44.0301.C15
Gene No.	60975	Strand	-
Start	1661	End	1825
Name	OJ000250_44.0301.C15.o1.np	Method	AAT/NAP
Start	1661	End	1825
GI	5777617	Score	66
Exons	1661..1825		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	29520	Seq. ID	OJ000250_44.0301.C17
Gene No.	60977	Strand	+
Start	1476	End	1769
Name	OJ000250_44.0301.C17.o1.gs	Method	GENSCAN
Start	1476	End	1769
GI	none	Score	.92
Exons	1476..1769		
Seq. No.	29521	Seq. ID	OJ000250_44.0301.C18
Gene No.	60978	Strand	+
Start	805	End	1815
Name	OJ000250_44.0301.C18.o1.gs	Method	GENSCAN
Start	805	End	1815
GI	none	Score	.6
Exons	805..993, 1124..1200, 1285..1357, 1452..1550, 1630..1815		
Seq. No.	29522	Seq. ID	OJ000250_44.0301.C26
Gene No.	60980	Strand	-
Start	172	End	1120
Name	OJ000250_44.0301.C26.o1.gs	Method	GENSCAN
Start	172	End	1066
GI	none	Score	.55
Exons	172..345, 944..1066		
Seq. No.	29522	Seq. ID	OJ000250_44.0301.C26
Gene No.	60980	Strand	-
Start	172	End	1120
Name	OJ000250_44.0301.C26.o1.np	Method	AAT/NAP
Start	740	End	1120
GI	4206306	Score	216
Exons	740..1120		
GI Descrip.	(AF049110) prpol [Zea mays]		
Seq. No.	29523	Seq. ID	OJ000250_44.0301.C27
Gene No.	60981	Strand	+
Start	1	End	1414
Name	OJ000250_44.0301.C27.o2.np	Method	AAT/NAP
Start	1	End	1168
GI	5852180	Score	40
Exons	1..174, 1045..1168		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	29523	Seq. ID	OJ000250_44.0301.C27

Gene No.	60981	Strand	+
Start	1	End	1414
Name	OJ000250_44.0301.C27.o3.np	Method	AAT/NAP
Start	1	End	1414
GI	4680186	Score	231
Exons	1..77, 1199..1414		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29523	Seq. ID	OJ000250_44.0301.C27
Gene No.	60982	Strand	-
Start	1	End	218
Name	OJ000250_44.0301.C27.o1.np	Method	AAT/NAP
Start	1	End	218
GI	4378066	Score	145
Exons	1..218		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	29524	Seq. ID	OJ000250_44.0301.C28
Gene No.	60984	Strand	+
Start	248	End	661
Name	OJ000250_44.0301.C28.o1.gs	Method	GENSCAN
Start	248	End	661
GI	none	Score	.52
Exons	248..661		

Seq. No.	29525	Seq. ID	OJ000250_44.0301.C30
Gene No.	60985	Strand	+
Start	133	End	952
Name	OJ000250_44.0301.C30.o1.gs	Method	GENSCAN
Start	133	End	952
GI	none	Score	.67
Exons	133..288, 829..952		

Seq. No.	29526	Seq. ID	OJ000250_44.0301.C31
Gene No.	60986	Strand	+
Start	45	End	1787
Name	OJ000250_44.0301.C31.o1.gs	Method	GENSCAN
Start	45	End	1447
GI	none	Score	.61
Exons	45..91, 298..367, 1070..1447		

Seq. No.	29526	Seq. ID	OJ000250_44.0301.C31
Gene No.	60986	Strand	+
Start	45	End	1787
Name	OJ000250_44.0301.C31.o1.np	Method	AAT/NAP
Start	1055	End	1787
GI	4680204	Score	281
Exons	1055..1787		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	29527	Seq. ID	OJ000250_44.0301.C33
Gene No.	60987	Strand	+
Start	98	End	840
Name	OJ000250_44.0301.C33.o1.gs	Method	GENSCAN
Start	98	End	840

GI	none	Score	.48
Exons	98..216, 818..840		
Seq. No.	29528	Seq. ID	OJ000250_44.0301.C36
Gene No.	60988	Strand	-
Start	1	End	705
Name	OJ000250_44.0301.C36.o1.np	Method	AAT/NAP
Start	1	End	705
GI	4680203	Score	905
Exons	1..705		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	29529	Seq. ID	OJ000250_44.0301.C38
Gene No.	60989	Strand	+
Start	1	End	339
Name	OJ000250_44.0301.C38.o1.np	Method	AAT/NAP
Start	1	End	339
GI	2924785	Score	114
Exons	1..129, 202..339		
GI Descrip.	(AC002334) putative leucine-rich repeat disease resistance protein [Arabidopsis thaliana]		
Seq. No.	29530	Seq. ID	OJ000250_44.0301.C39
Gene No.	60990	Strand	+
Start	1	End	664
Name	OJ000250_44.0301.C39.o1.np	Method	AAT/NAP
Start	1	End	664
GI	2808682	Score	160
Exons	1..36, 94..412, 616..664		
GI Descrip.	(AJ002235) Hcr9-4C [Lycopersicon hirsutum]		
Seq. No.	29530	Seq. ID	OJ000250_44.0301.C39
Gene No.	60990	Strand	+
Start	1	End	664
Name	OJ000250_44.0301.C39.o1.gs	Method	GENSCAN
Start	19	End	348
GI	none	Score	.44
Exons	19..348		
Seq. No.	29531	Seq. ID	OJ000250_44.0301.C42
Gene No.	60991	Strand	-
Start	278	End	392
Name	OJ000250_44.0301.C42.o1.gs	Method	GENSCAN
Start	278	End	392
GI	none	Score	.9
Exons	278..281, 339..392		
Seq. No.	29532	Seq. ID	OJ000250_44.0301.C43
Gene No.	60992	Strand	-
Start	1	End	966
Name	OJ000250_44.0301.C43.o1.np	Method	AAT/NAP
Start	1	End	966
GI	4378066	Score	710
Exons	1..966		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	29533	Seq. ID	OJ000250_44.0301.C50
Gene No.	60993	Strand	-
Start	216	End	327
Name	OJ000250_44.0301.C50.o1.gs	Method	GENSCAN
Start	216	End	327
GI	none	Score	.46
Exons	216..327		

Seq. No.	29534	Seq. ID	OJ000250_44.0301.C52
Gene No.	60994	Strand	-
Start	8	End	169
Name	OJ000250_44.0301.C52.o1.gs	Method	GENSCAN
Start	8	End	169
GI	none	Score	.81
Exons	8..169		

Seq. No.	29535	Seq. ID	OJ000250_44.0301.C53
Gene No.	60995	Strand	-
Start	1	End	668
Name	OJ000250_44.0301.C53.o1.np	Method	AAT/NAP
Start	1	End	668
GI	6742729	Score	1097
Exons	1..668		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	29535	Seq. ID	OJ000250_44.0301.C53
Gene No.	60995	Strand	-
Start	1	End	668
Name	OJ000250_44.0301.C53.o1.gs	Method	GENSCAN
Start	17	End	514
GI	none	Score	.56
Exons	17..514		

Seq. No.	29536	Seq. ID	OJ000250_44.0301.C54
Gene No.	60996	Strand	+
Start	1	End	1300
Name	OJ000250_44.0301.C54.o2.np	Method	AAT/NAP
Start	1	End	1300
GI	4378066	Score	187
Exons	1..57, 897..1300		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	29536	Seq. ID	OJ000250_44.0301.C54
Gene No.	60996	Strand	+
Start	1	End	1300
Name	OJ000250_44.0301.C54.o1.gs	Method	GENSCAN
Start	112	End	1015
GI	none	Score	.6
Exons	112..403, 596..713, 789..1015		

Seq. No.	29537	Seq. ID	OJ000250_44.0301.C55
Gene No.	60997	Strand	+
Start	1	End	1001
Name	OJ000250_44.0301.C55.o1.np	Method	AAT/NAP

Start 1  
 GI 4206306  
 Exons 1..1001  
 GI Descrip. (AF049110) prpol [Zea mays]

End 1001  
 Score 897

Seq. No. 29538  
 Gene No. 60998  
 Start 84  
 Name OJ000250\_44.0301.C56.o1.gs  
 Start 107  
 GI none  
 Exons 107..119

Seq. ID OJ000250\_44.0301.C56  
 Strand +  
 End 224  
 Method GENSCAN  
 End 119  
 Score .63

Seq. No. 29539  
 Gene No. 60999  
 Start 374  
 Name OJ000250\_44.0301.C58.o1.gs  
 Start 374  
 GI none  
 Exons 374..419, 549..618, 808..832

Seq. ID OJ000250\_44.0301.C58  
 Strand +  
 End 832  
 Method GENSCAN  
 End 832  
 Score .58

Seq. No. 29540  
 Gene No. 61000  
 Start 70  
 Name OJ000250\_44.0301.C59.o1.gs  
 Start 70  
 GI none  
 Exons 70..357

Seq. ID OJ000250\_44.0301.C59  
 Strand +  
 End 357  
 Method GENSCAN  
 End 357  
 Score .93

Seq. No. 29540  
 Gene No. 61001  
 Start 1730  
 Name OJ000250\_44.0301.C59.o1.gp  
 Start 1730  
 GI uC-osflcyp162a07a1  
 Exons 1730..1886, 1986..2265  
 GI Descrip. '4680179/gb|AAD27547.1|AF111709\_1 2.0e-40 (AF111709) polyprotein [Oryza sativa subsp. indica]'

Seq. ID OJ000250\_44.0301.C59  
 Strand +  
 End 2265  
 Method AAT/GAP  
 End 2265  
 Score 755

Seq. No. 29540  
 Gene No. 61002  
 Start 4126  
 Name OJ000250\_44.0301.C59.o4.gp  
 Start 4126  
 GI 101153\_1.R1084  
 Exons 4126..4358, 4814..4862  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. ID OJ000250\_44.0301.C59  
 Strand +  
 End 4862  
 Method AAT/GAP  
 End 4862  
 Score 391

Seq. No. 29540  
 Gene No. 61003  
 Start 1  
 Name OJ000250\_44.0301.C59.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..106, 1262..2377  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ000250\_44.0301.C59  
 Strand -  
 End 2377  
 Method AAT/NAP  
 End 2377  
 Score 767



Seq. No.	29540	Seq. ID	OJ000250_44.0301.C59
Gene No.	61004	Strand	-
Start	2870	End	3144
Name	OJ000250_44.0301.C59.o2.gp	Method	AAT/GAP
Start	2870	End	3144
GI	61605_1.R1084	Score	465
Exons	2870..3144		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	29540	Seq. ID	OJ000250_44.0301.C59
Gene No.	61005	Strand	-
Start	3515	End	5175
Name	OJ000250_44.0301.C59.o1.tm	Method	TBLASTX:Maize
Start	1557	End	1912
GI	none	Score	42
Exons	1557..1886, 1622..1684, 1649..1912, 1725..1886		

Seq. No.	29540	Seq. ID	OJ000250_44.0301.C59
Gene No.	61005	Strand	-
Start	3515	End	5175
Name	OJ000250_44.0301.C59.o1.tw	Method	TBLASTX:Wheat
Start	1793	End	2149
GI	none	Score	76
Exons	1793..2149, 1794..1934, 1971..2141		

Seq. No.	29540	Seq. ID	OJ000250_44.0301.C59
Gene No.	61005	Strand	-
Start	3515	End	5175
Name	OJ000250_44.0301.C59.o2.np	Method	AAT/NAP
Start	3515	End	5175
GI	6063554	Score	203
Exons	3515..3688, 4329..4360, 5038..5175		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29541	Seq. ID	OJ000250_44.0301.C60
Gene No.	61006	Strand	-
Start	1	End	897
Name	OJ000250_44.0301.C60.o1.np	Method	AAT/NAP
Start	1	End	897
GI	4680203	Score	886
Exons	1..897		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29541	Seq. ID	OJ000250_44.0301.C60
Gene No.	61006	Strand	-
Start	1	End	897
Name	OJ000250_44.0301.C60.o1.gs	Method	GENSCAN
Start	8	End	513
GI	none	Score	.6
Exons	8..513		

Seq. No.	29542	Seq. ID	OJ000250_44.0301.C61
Gene No.	61007	Strand	-

Start	32	End	385
Name	OJ000250_44.0301.C61.o1.gs	Method	GENSCAN
Start	32	End	385
GI	none	Score	.89
Exons	32..385		

Seq. No.	29543	Seq. ID	OJ000250_44.0301.C62
Gene No.	61008	Strand	+
Start	11	End	1772
Name	OJ000250_44.0301.C62.o1.np	Method	AAT/NAP
Start	11	End	1772
GI	4680204	Score	869
Exons	11..1446, 1521..1772		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	29543	Seq. ID	OJ000250_44.0301.C62
Gene No.	61008	Strand	+
Start	11	End	1772
Name	OJ000250_44.0301.C62.o1.gs	Method	GENSCAN
Start	26	End	1714
GI	none	Score	.79
Exons	26..404, 525..1069, 1096..1281, 1327..1446, 1521..1714		

Seq. No.	29544	Seq. ID	OJ000250_44.0301.C63
Gene No.	61009	Strand	-
Start	22	End	354
Name	OJ000250_44.0301.C63.o1.gs	Method	GENSCAN
Start	22	End	354
GI	none	Score	.78
Exons	22..354		

Seq. No.	29545	Seq. ID	OJ000250_44.0301.C65
Gene No.	61010	Strand	-
Start	1	End	543
Name	OJ000250_44.0301.C65.o1.np	Method	AAT/NAP
Start	1	End	543
GI	6742729	Score	831
Exons	1..543		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	29546	Seq. ID	OJ000250_44.0301.C67
Gene No.	61011	Strand	+
Start	1	End	2286
Name	OJ000250_44.0301.C67.o1.np	Method	AAT/NAP
Start	1	End	2286
GI	6682625	Score	728
Exons	1..111, 403..477, 622..2286		
GI Descrip.	(AC016163) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	29546	Seq. ID	OJ000250_44.0301.C67
Gene No.	61011	Strand	+
Start	1	End	2286
Name	OJ000250_44.0301.C67.o1.gs	Method	GENSCAN
Start	71	End	2170
GI	none	Score	.46
Exons	71..333, 487..652, 1371..1411, 1858..2170		

Seq. No.	29547	Seq. ID	OJ000250_44.0301.C69
Gene No.	61012	Strand	+
Start	29	End	1273
Name	OJ000250_44.0301.C69.ol.gs	Method	GENSCAN
Start	29	End	1273
GI	none	Score	.46
Exons	29..81, 367..403, 1172..1273		

Seq. No.	29548	Seq. ID	OJ000250_44.0301.C71
Gene No.	61013	Strand	-
Start	1	End	2066
Name	OJ000250_44.0301.C71.ol.np	Method	AAT/NAP
Start	1	End	2066
GI	4680203	Score	1982
Exons	1..50, 103..1791, 1895..2066		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29549	Seq. ID	OJ000250_44.0301.C73
Gene No.	61014	Strand	-
Start	16	End	160
Name	OJ000250_44.0301.C73.ol.gs	Method	GENSCAN
Start	16	End	160
GI	none	Score	.96
Exons	16..160		

Seq. No.	29550	Seq. ID	OJ000250_44.0301.C74
Gene No.	61015	Strand	+
Start	46	End	466
Name	OJ000250_44.0301.C74.ol.gs	Method	GENSCAN
Start	46	End	466
GI	none	Score	.74
Exons	46..214, 226..314, 344..466		

Seq. No.	29551	Seq. ID	OJ000250_44.0301.C77
Gene No.	61016	Strand	-
Start	1	End	526
Name	OJ000250_44.0301.C77.ol.np	Method	AAT/NAP
Start	1	End	526
GI	4235641	Score	257
Exons	1..526		
GI Descrip.	(AF119040) NL0D [Lycopersicon esculentum]		

Seq. No.	29552	Seq. ID	OJ000250_44.0301.C82
Gene No.	61017	Strand	-
Start	1	End	614
Name	OJ000250_44.0301.C82.ol.np	Method	AAT/NAP
Start	1	End	614
GI	6498441	Score	1034
Exons	1..614		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	29552	Seq. ID	OJ000250_44.0301.C82
Gene No.	61017	Strand	-
Start	1	End	614

Name OJ000250\_44.0301.C82.o1.gs  
 Start 87  
 GI none  
 Exons 87..447, 516..586

Method GENSCAN  
 End 586  
 Score .54

Seq. No. 29553  
 Gene No. 61018  
 Start 174  
 Name OJ000210\_19.0301.C1.o1.gs  
 Start 174  
 GI none  
 Exons 174..320

Seq. ID OJ000210\_19.0301.C1  
 Strand +  
 End 344  
 Method GENSCAN  
 End 320  
 Score .83

Seq. No. 29553  
 Gene No. 61018  
 Start 174  
 Name OJ000210\_19.0301.C1.o1.tm  
 Start 178  
 GI none  
 Exons 178..318, 182..319, 183..344, 183..320

Seq. ID OJ000210\_19.0301.C1  
 Strand +  
 End 344  
 Method TBLASTX:Maize  
 End 344  
 Score 123

Seq. No. 29553  
 Gene No. 61018  
 Start 174  
 Name OJ000210\_19.0301.C1.o1.gp  
 Start 180  
 GI 2057\_1.R1084  
 Exons 180..320  
 GI Descrip. '3212854 2.0e-61 (AC004005) unknown protein [Arabidopsis thaliana]'

Seq. ID OJ000210\_19.0301.C1  
 Strand +  
 End 344  
 Method AAT/GAP  
 End 320  
 Score 275

Seq. No. 29554  
 Gene No. 61019  
 Start 1225  
 Name OJ000210\_19.0301.C3.o1.gs  
 Start 1225  
 GI none  
 Exons 1225..1381

Seq. ID OJ000210\_19.0301.C3  
 Strand +  
 End 1381  
 Method GENSCAN  
 End 1381  
 Score .58

Seq. No. 29554  
 Gene No. 61020  
 Start 1  
 Name OJ000210\_19.0301.C3.o1.np  
 Start 1  
 GI 1351904  
 Exons 1..24, 310..407, 1648..1681  
 GI Descrip. BIFUNCTIONAL ASPARTOKINASE/HOMOSERINE DEHYDROGENASE 1, CHLOROPLAST PRECURSOR (AK-HD 1) (AK-HSDH 1) [INCLUDES: ASPARTOKINASE ; HOMOSERINE DEHYDROGENASE ] gi|500851 (L33912) aspartate kinase-homoserine dehydrogenase [Zea mays]

Seq. ID OJ000210\_19.0301.C3  
 Strand -  
 End 1681  
 Method AAT/NAP  
 End 1681  
 Score 84

Seq. No. 29555  
 Gene No. 61021  
 Start 404  
 Name OJ000210\_19.0301.C4.o1.gs  
 Start 404  
 GI none

Seq. ID OJ000210\_19.0301.C4  
 Strand +  
 End 3533  
 Method GENSCAN  
 End 3533  
 Score .84

Exons 404..481, 486..656, 3153..3533

Seq. No.	29555	Seq. ID	OJ000210_19.0301.C4
Gene No.	61022	Strand	+
Start	4466	End	6952
Name	OJ000210_19.0301.C4.o2.gs	Method	GENSCAN
Start	4466	End	6952
GI	none	Score	.86
Exons	4466..4588, 5345..5391, 5514..5637, 6121..6368, 6473..6562, 6646..6952		

Seq. No.	29555	Seq. ID	OJ000210_19.0301.C4
Gene No.	61022	Strand	+
Start	4466	End	6952
Name	OJ000210_19.0301.C4.o1.tm	Method	TBLASTX:Maize
Start	5742	End	6391
GI	none	Score	68
Exons	5742..5783, 6118..6201, 6120..6191, 6220..6363, 6237..6362, 6290..6391		

Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.gs	Method	GENSCAN
Start	543	End	4070
GI	none	Score	.85
Exons	543..600, 2489..2676, 2714..2865, 2948..4070		

Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.np	Method	AAT/NAP
Start	651	End	4924
GI	3461844	Score	695
Exons	651..710, 2648..2818, 2931..3735, 3766..4010, 4809..4924		
GI Descrip.	(AC005315) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.tw	Method	TBLASTX:Wheat
Start	2647	End	3212
GI	none	Score	55
Exons	2647..2709, 2666..2710, 2949..3179, 2954..3070, 3161..3211, 3162..3212		

Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.tm	Method	TBLASTX:Maize
Start	2937	End	3410
GI	none	Score	255
Exons	2937..3017, 2948..3208, 2949..3224, 3236..3400, 3252..3410		

Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924

Name	OJ000210_19.0301.C5.o2.ts	Method	TBLASTX:Soybean
Start	3069	End	3407
GI	none	Score	118
Exons	3069..3224, 3236..3397, 3252..3407		
Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.tc	Method	TBLASTX:Cress
Start	3248	End	3518
GI	none	Score	210
Exons	3248..3451, 3252..3518		
Seq. No.	29556	Seq. ID	OJ000210_19.0301.C5
Gene No.	61023	Strand	+
Start	543	End	4924
Name	OJ000210_19.0301.C5.o1.ts	Method	TBLASTX:Soybean
Start	3408	End	3941
GI	none	Score	80
Exons	3408..3506, 3552..3710, 3608..3703, 3783..3941		
Seq. No.	29557	Seq. ID	OJ000210_19.0301.C6
Gene No.	61024	Strand	+
Start	1	End	2663
Name	OJ000210_19.0301.C6.o1.np	Method	AAT/NAP
Start	1	End	2663
GI	6539553	Score	233
Exons	1..44, 2330..2663		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	29557	Seq. ID	OJ000210_19.0301.C6
Gene No.	61024	Strand	+
Start	1	End	2663
Name	OJ000210_19.0301.C6.o1.gs	Method	GENSCAN
Start	66	End	125
GI	none	Score	.67
Exons	66..125		
Seq. No.	29557	Seq. ID	OJ000210_19.0301.C6
Gene No.	61025	Strand	-
Start	1078	End	1726
Name	OJ000210_19.0301.C6.o2.gs	Method	GENSCAN
Start	1078	End	1726
GI	none	Score	.45
Exons	1078..1280, 1657..1726		
Seq. No.	29558	Seq. ID	OJ000210_19.0301.C7
Gene No.	61026	Strand	+
Start	1441	End	1566
Name	OJ000210_19.0301.C7.o1.gp	Method	AAT/GAP
Start	1441	End	1566
GI	5867_1.R1084	Score	120
Exons	1441..1566		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING		

ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi\_421857\_pir\_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi\_297884\_emb\_CAA78714\_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi\_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]

Seq. No.	29558	Seq. ID	OJ000210_19.0301.C7
Gene No.	61027	Strand	+
Start	2603	End	3089
Name	OJ000210_19.0301.C7.o1.gs	Method	GENSCAN
Start	2603	End	3089
GI	none	Score	.42
Exons	2603..2804, 3031..3089		

Seq. No.	29558	Seq. ID	OJ000210_19.0301.C7
Gene No.	61028	Strand	-
Start	3341	End	4056
Name	OJ000210_19.0301.C7.o1.np	Method	AAT/NAP
Start	3340	End	4056
GI	5295951	Score	178
Exons	3340..3469, 3515..3695, 3851..4056		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	29558	Seq. ID	OJ000210_19.0301.C7
Gene No.	61028	Strand	-
Start	3341	End	4056
Name	OJ000210_19.0301.C7.o2.gs	Method	GENSCAN
Start	3341	End	4054
GI	none	Score	.59
Exons	3341..3617, 3933..4054		

Seq. No.	29559	Seq. ID	OJ000210_19.0301.C8
Gene No.	61029	Strand	+
Start	99	End	714
Name	OJ000210_19.0301.C8.o1.gs	Method	GENSCAN
Start	99	End	714
GI	none	Score	.42
Exons	99..149, 553..714		

Seq. No.	29559	Seq. ID	OJ000210_19.0301.C8
Gene No.	61030	Strand	-
Start	1	End	1071
Name	OJ000210_19.0301.C8.o1.np	Method	AAT/NAP
Start	1	End	1071
GI	6006359	Score	76
Exons	1..37, 675..794, 1005..1071		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61031	Strand	+
Start	127	End	4397
Name	OJ000210_19.0301.C9.o1.gs	Method	GENSCAN
Start	127	End	4397
GI	none	Score	.4
Exons	127..269, 4193..4397		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61032	Strand	+
Start	9385	End	12123
Name	OJ000210_19.0301.C9.o2.gp	Method	AAT/GAP
Start	8593	End	9636
GI	none	Score	950
Exons	8593..8754, 9314..9636		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61032	Strand	+
Start	9385	End	12123
Name	OJ000210_19.0301.C9.o2.np	Method	AAT/NAP
Start	9331	End	12123
GI	2494034	Score	1307
Exons	9331..10449, 10859..11234, 11341..11416, 11617..11736, 11829..12123		
GI Descrip.	DIACYLGLYCEROL KINASE 1 (DIGLYCERIDE KINASE) (DGK 1) (DAG KINASE 1) gi 2129573 pir  S71467 diacylglycerol kinase - Arabidopsis thaliana gi 1374772 dbj BAA09856  (D63787) diacylglycerol kinase [Arabidopsis thaliana]		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61032	Strand	+
Start	9385	End	12123
Name	OJ000210_19.0301.C9.o3.gs	Method	GENSCAN
Start	9385	End	11993
GI	none	Score	.45
Exons	9385..10449, 10859..11234, 11341..11416, 11643..11736, 11829..11993		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61032	Strand	+
Start	9385	End	12123
Name	OJ000210_19.0301.C9.o3.gp	Method	AAT/GAP
Start	11662	End	11995
GI	53991.1.R1084	Score	379
Exons	11662..11736, 11829..11995		
GI Descrip.	'2494034/sp Q39017 KDG1_ARATH 8.0e-52 DIACYLGLYCEROL KINASE 1 (DIGLYCERIDE KINASE) (DGK 1) (DAG KINASE 1) >gi_2129573_pir_S71467 diacylglycerol kinase - Arabidopsis thaliana >gi_1374772_dbj_BAA09856_ (D63787) diacylglycerol kinase [Arabidopsis thaliana]'		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o1.np	Method	AAT/NAP
Start	4478	End	7378
GI	6016874	Score	2159
Exons	4478..4725, 5181..5541, 5659..5838, 6232..6391, 6782..7014, 7079..7216, 7300..7378		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9



Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o2.gs	Method	GENSCAN
Start	5198	End	7378
GI	none	Score	.7
Exons	5198..5838, 6232..6391, 6782..7378		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o5.tm	Method	TBLASTX:Maize
Start	5264	End	5507
GI	none	Score	97
Exons	5264..5497, 5349..5507		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o7.tm	Method	TBLASTX:Maize
Start	5619	End	5971
GI	none	Score	133
Exons	5619..5960, 5690..5971		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o6.tm	Method	TBLASTX:Maize
Start	6176	End	6490
GI	none	Score	108
Exons	6176..6403, 6177..6395, 6416..6490		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o1.gp	Method	AAT/GAP
Start	6181	End	6689
GI	uC-osflcyp110c07b1	Score	970
Exons	6181..6689		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61033	Strand	-
Start	4478	End	7378
Name	OJ000210_19.0301.C9.o4.tm	Method	TBLASTX:Maize
Start	6584	End	7030
GI	none	Score	110
Exons	6584..6622, 6617..6673, 6710..6958, 6750..6959, 6944..7030		
Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61034	Strand	-
Start	9348	End	9512
Name	OJ000210_19.0301.C9.o8.tm	Method	TBLASTX:Maize
Start	9348	End	9512
GI	none	Score	206
Exons	9348..9512, 9355..9510		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o1.tc	Method	TBLASTX:Cress
Start	9439	End	11996
GI	none	Score	85
Exons	9439..9660, 9672..9776, 9683..9991, 9691..10050, 9793..10002, 9840..10031, 10318..10470, 10856..11206, 10861..11163, 11213..11236, 11337..11408, 11614..11736, 11616..11738, 11826..11996, 11826..11993, 11828..11995		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o2.tm	Method	TBLASTX:Maize
Start	9688	End	10035
GI	none	Score	398
Exons	9688..10035, 9688..9984, 9843..10034		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o2.ts	Method	TBLASTX:Soybean
Start	9799	End	10035
GI	none	Score	264
Exons	9799..10035, 9846..10031		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o3.tm	Method	TBLASTX:Maize
Start	10317	End	11236
GI	none	Score	62
Exons	10317..10412, 10321..10464, 10323..10463, 10856..11185, 10856..11086, 10882..11190, 11213..11236		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o3.ts	Method	TBLASTX:Soybean
Start	10948	End	11137
GI	none	Score	197
Exons	10948..11121, 10949..11137		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996
Name	OJ000210_19.0301.C9.o1.ts	Method	TBLASTX:Soybean
Start	11343	End	11996
GI	none	Score	72
Exons	11343..11408, 11611..11715, 11614..11736, 11616..11738, 11824..11994, 11826..11996, 11826..11993, 11828..11995		

Seq. No.	29560	Seq. ID	OJ000210_19.0301.C9
Gene No.	61035	Strand	
Start	9439	End	11996

Name	OJ000210_19.0301.C9.o1.tm	Method	TBLASTX:Maize
Start	11348	End	11991
GI	none	Score	80
Exons	11348..11395, 11349..11393, 11390..11416, 11391..11411, 11614..11736, 11615..11737, 11616..11738, 11808..11990, 11826..11990, 11827..11991		

Seq. No.	29561	Seq. ID	OJ000210_19.0301.C10
Gene No.	61036	Strand	-
Start	474	End	1875
Name	OJ000210_19.0301.C10.o1.gs	Method	GENSCAN
Start	474	End	1873
GI	none	Score	.98
Exons	474..481, 1177..1873		

Seq. No.	29561	Seq. ID	OJ000210_19.0301.C10
Gene No.	61036	Strand	-
Start	474	End	1875
Name	OJ000210_19.0301.C10.o1.tm	Method	TBLASTX:Maize
Start	1216	End	1747
GI	none	Score	227
Exons	1216..1449, 1224..1421, 1256..1462, 1406..1468, 1436..1654, 1465..1635, 1469..1651, 1473..1655, 1652..1747, 1652..1741		

Seq. No.	29561	Seq. ID	OJ000210_19.0301.C10
Gene No.	61036	Strand	-
Start	474	End	1875
Name	OJ000210_19.0301.C10.o1.np	Method	AAT/NAP
Start	1300	End	1875
GI	4467124	Score	257
Exons	1300..1875		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29561	Seq. ID	OJ000210_19.0301.C10
Gene No.	61036	Strand	-
Start	474	End	1875
Name	OJ000210_19.0301.C10.o1.tc	Method	TBLASTX:Cress
Start	1475	End	1789
GI	none	Score	61
Exons	1475..1789, 1476..1631		

Seq. No.	29562	Seq. ID	OJ000210_19.0301.C12
Gene No.	61037	Strand	-
Start	208	End	389
Name	OJ000210_19.0301.C12.o1.gs	Method	GENSCAN
Start	208	End	389
GI	none	Score	.41
Exons	208..389		

Seq. No.	29563	Seq. ID	OJ000210_19.0301.C13
Gene No.	61038	Strand	-
Start	1	End	415
Name	OJ000210_19.0301.C13.o1.np	Method	AAT/NAP
Start	1	End	415
GI	3885341	Score	245
Exons	1..415		
GI Descrip.	(AC005623) Mutator-like transposase [Arabidopsis thaliana]		

Seq. No. 29563  
Gene No. 61038  
Start 1  
Name OJ000210\_19.0301.C13.o1.tm  
Start 21  
GI none  
Exons 21..290, 25..219

Seq. ID OJ000210\_19.0301.C13  
Strand -  
End 415  
Method TBLASTX:Maize  
End 290  
Score 91

Seq. No. 29563  
Gene No. 61038  
Start 1  
Name OJ000210\_19.0301.C13.o1.ts  
Start 54  
GI none  
Exons 54..281, 64..246

Seq. ID OJ000210\_19.0301.C13  
Strand -  
End 415  
Method TBLASTX:Soybean  
End 281  
Score 77

Seq. No. 29564  
Gene No. 61039  
Start 1  
Name OJ000210\_19.0301.C14.o1.gp  
Start 1  
GI 2798152  
Exons 1..64, 337..575

Seq. ID OJ000210\_19.0301.C14  
Strand +  
End 575  
Method AAT/GAP  
End 575  
Score 410

GI Descrip. 3402817/emb|CAA07704| 3.0e-14 (AJ007829) lacZ' [Cloning vector pGreen]

Seq. No. 29564  
Gene No. 61040  
Start 3773  
Name OJ000210\_19.0301.C14.o2.gs  
Start 3773  
GI none  
Exons 3773..4441, 4866..5279

Seq. ID OJ000210\_19.0301.C14  
Strand +  
End 5279  
Method GENSCAN  
End 5279  
Score .44

Seq. No. 29564  
Gene No. 61041  
Start 8692  
Name OJ000210\_19.0301.C14.o4.gp  
Start 8570  
GI none  
Exons 8570..9033

Seq. ID OJ000210\_19.0301.C14  
Strand +  
End 12809  
Method AAT/GAP  
End 9033  
Score 876

Seq. No. 29564  
Gene No. 61041  
Start 8692  
Name OJ000210\_19.0301.C14.o3.gs  
Start 8692  
GI none  
Exons 8692..9069, 9273..9355, 9489..9641, 11267..11372, 11611..11692, 12116..12210, 12374..12445, 12543..12622, 12708..12804

Seq. ID OJ000210\_19.0301.C14  
Strand +  
End 12809  
Method GENSCAN  
End 12804  
Score .72

Seq. No. 29564  
Gene No. 61041  
Start 8692  
Name OJ000210\_19.0301.C14.o2.np  
Start 8848

Seq. ID OJ000210\_19.0301.C14  
Strand +  
End 12809  
Method AAT/NAP  
End 12809

GI 3212854 Score 310  
 Exons 8848..9069, 11611..11692, 12116..12210, 12374..12445,  
 12543..12622, 12708..12809  
 GI Descrip. (AC004005) unknown protein [Arabidopsis thaliana]

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o1.tm Method TBLASTX:Maize  
 Start 524 End 2009  
 GI none Score 128  
 Exons 524..661, 527..661, 528..662, 879..956, 884..958, 885..938,  
 887..958, 956..1009, 959..1012, 1433..1519, 1436..1531,  
 1438..1530, 1440..1532, 1443..1532, 1459..1557, 1649..1795,  
 1649..1795, 1650..1796, 1651..1797, 1651..1797, 1747..1821,  
 1748..1822, 1956..2009, 1964..2008

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o1.gs Method GENSCAN  
 Start 530 End 2107  
 GI none Score .89  
 Exons 530..661, 887..1007, 1436..1530, 1651..1821, 1961..2050,  
 2099..2107

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o1.np Method AAT/NAP  
 Start 533 End 4321  
 GI 3212852 Score 578  
 Exons 533..661, 887..1007, 1436..1821, 1964..2050, 3884..4321  
 GI Descrip. (AC004005) unknown protein [Arabidopsis thaliana]

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o2.gp Method AAT/GAP  
 Start 598 End 1832  
 GI 12688\_1.R1084 Score 797  
 Exons 598..662, 886..1007, 1436..1530, 1651..1832  
 GI Descrip. '3212852 3.0e-21 (AC004005) unknown protein [Arabidopsis  
 thaliana]'

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o3.tm Method TBLASTX:Maize  
 Start 3884 End 4175  
 GI none Score 121  
 Exons 3884..3988, 3887..3985, 4061..4156, 4074..4175

Seq. No. 29564 Seq. ID OJ000210\_19.0301.C14  
 Gene No. 61042 Strand -  
 Start 530 End 4323  
 Name OJ000210\_19.0301.C14.o3.gp Method AAT/GAP

Start 4042  
GI none  
Exons 4042..4323

End 4323  
Score 560

Seq. No. 29564  
Gene No. 61043  
Start 8995  
Name OJ000210\_19.0301.C14.o2.tm  
Start 8995  
GI none  
Exons 8995..9084, 9028..9072, 11595..11690, 11595..11687, 11608..11721, 11609..11692, 11611..11709, 12114..12212, 12115..12213, 12373..12438, 12374..12445, 12536..12622, 12543..12620, 12706..12807, 12707..12802

Seq. ID OJ000210\_19.0301.C14  
Strand  
End 12807  
Method TBLASTX:Maize  
End 12807  
Score 100

Seq. No. 29565  
Gene No. 61044  
Start 1  
Name OJ000210\_19.0301.C15.o1.gp  
Start 1  
GI 2057\_1.R1084  
Exons 1..322  
GI Descrip. '3212854 2.0e-61 (AC004005) unknown protein [Arabidopsis thaliana]'

Seq. ID OJ000210\_19.0301.C15  
Strand -  
End 322  
Method AAT/GAP  
End 322  
Score 644

Seq. No. 29565  
Gene No. 61045  
Start 4050  
Name OJ000210\_19.0301.C15.o1.gs  
Start 4050  
GI none  
Exons 4050..4076, 4432..4765, 5638..5984

Seq. ID OJ000210\_19.0301.C15  
Strand -  
End 5984  
Method GENSCAN  
End 5984  
Score .68

Seq. No. 29565  
Gene No. 61045  
Start 4050  
Name OJ000210\_19.0301.C15.o1.np  
Start 4984  
GI 6721559  
Exons 4984..5119, 5148..5592  
GI Descrip. (AP001073) hypothetical protein [Oryza sativa] gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000210\_19.0301.C15  
Strand -  
End 5984  
Method AAT/NAP  
End 5592  
Score 360

Seq. No. 29565  
Gene No. 61046  
Start 7926  
Name OJ000210\_19.0301.C15.o2.gs  
Start 7926  
GI none  
Exons 7926..8150, 8184..8306, 9442..9558, 10784..11380, 13314..13504, 13586..14363, 14383..15422, 15961..16270, 17076..17401, 17481..17573, 17989..18148

Seq. ID OJ000210\_19.0301.C15  
Strand -  
End 18148  
Method GENSCAN  
End 18148  
Score .48

Seq. No. 29565  
Gene No. 61046  
Start 7926

Seq. ID OJ000210\_19.0301.C15  
Strand -  
End 18148

Name	OJ000210_19.0301.C15.o2.np	Method	AAT/NAP
Start	10595	End	17749
GI	4544372	Score	1180
Exons	10595..12446, 12572..12686, 12920..13151, 13209..14221, 17698..17749		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61047	Strand	-
Start	20131	End	20805
Name	OJ000210_19.0301.C15.o3.gs	Method	GENSCAN
Start	20131	End	20805
GI	none	Score	.79
Exons	20131..20247, 20266..20386, 20666..20805		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o3.tm	Method	TBLASTX:Maize
Start	8959	End	9359
GI	none	Score	61
Exons	8959..9060, 8966..9073, 9073..9225, 9077..9226, 9223..9267, 9224..9262, 9307..9351, 9309..9359		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o2.tw	Method	TBLASTX:Wheat
Start	10633	End	10999
GI	none	Score	176
Exons	10633..10719, 10727..10999		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o3.ts	Method	TBLASTX:Soybean
Start	11150	End	11545
GI	none	Score	67
Exons	11150..11545, 11250..11444		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o1.ts	Method	TBLASTX:Soybean
Start	12261	End	12679
GI	none	Score	65
Exons	12261..12425, 12265..12378, 12430..12504, 12541..12678, 12541..12678, 12572..12679		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o2.ts	Method	TBLASTX:Soybean
Start	13096	End	13526
GI	none	Score	46
Exons	13096..13206, 13118..13204, 13245..13526, 13284..13484,		

13414..13485

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o1.tm	Method	TBLASTX:Maize
Start	13215	End	13673
GI	none	Score	234
Exons	13215..13673, 13215..13526, 13420..13548, 13544..13624, 13596..13673		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o1.tw	Method	TBLASTX:Wheat
Start	13541	End	13949
GI	none	Score	68
Exons	13541..13612, 13585..13857, 13593..13814, 13596..13949, 13615..13929		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o2.tm	Method	TBLASTX:Maize
Start	13674	End	13889
GI	none	Score	92
Exons	13674..13886, 13674..13889, 13675..13887		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o4.ts	Method	TBLASTX:Soybean
Start	13743	End	14111
GI	none	Score	131
Exons	13743..13877, 13893..14111		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o5.tm	Method	TBLASTX:Maize
Start	16004	End	16372
GI	none	Score	43
Exons	16004..16222, 16107..16217, 16250..16372, 16251..16355		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o4.tm	Method	TBLASTX:Maize
Start	18890	End	19180
GI	none	Score	206
Exons	18890..19180		

Seq. No.	29565	Seq. ID	OJ000210_19.0301.C15
Gene No.	61048	Strand	-
Start	22235	End	23221
Name	OJ000210_19.0301.C15.o4.gs	Method	GENSCAN
Start	22235	End	23221



GI	none	Score	.69
Exons	22235..22441, 22576..22681, 23112..23221		
Seq. No.	29566	Seq. ID	OJ000210_19.0301.C16
Gene No.	61049	Strand	-
Start	634	End	1508
Name	OJ000210_19.0301.C16.o1.np	Method	AAT/NAP
Start	447	End	1427
GI	6523547	Score	201
Exons	447..960, 1117..1427		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	29566	Seq. ID	OJ000210_19.0301.C16
Gene No.	61049	Strand	-
Start	634	End	1508
Name	OJ000210_19.0301.C16.o1.gs	Method	GENSCAN
Start	634	End	1508
GI	none	Score	.72
Exons	634..742, 1114..1508		

Seq. No.	29567	Seq. ID	OJ000210_15.0302.C1
Gene No.	61050	Strand	-
Start	1	End	683
Name	OJ000210_15.0302.C1.o1.np	Method	AAT/NAP
Start	1	End	683
GI	6815097	Score	544
Exons	1..234, 375..683		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	29568	Seq. ID	OJ000210_15.0302.C2
Gene No.	61051	Strand	+
Start	1	End	252
Name	OJ000210_15.0302.C2.o1.np	Method	AAT/NAP
Start	1	End	252
GI	5917666	Score	85
Exons	1..252		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	29568	Seq. ID	OJ000210_15.0302.C2
Gene No.	61052	Strand	+
Start	390	End	636
Name	OJ000210_15.0302.C2.o1.gs	Method	GENSCAN
Start	390	End	636
GI	none	Score	.81
Exons	390..461, 520..636		

Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.np	Method	AAT/NAP
Start	301	End	2019
GI	3080401	Score	858
Exons	301..382, 485..881, 1551..1673, 1753..2019		
GI Descrip.	(AL022603) putative protein [Arabidopsis thaliana] gi 4455265 emb CAB36801.1  (AL035527) putative protein		

[Arabidopsis thaliana]

Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.ts	Method	TBLASTX:Soybean
Start	586	End	2017
GI	none	Score	301
Exons	586..882, 591..890, 1555..1671, 1566..1688, 1571..1675, 1750..2016, 1752..1997, 1753..1998, 1790..2017		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.tm	Method	TBLASTX:Maize
Start	591	End	2038
GI	none	Score	392
Exons	591..881, 591..896, 592..903, 610..906, 1551..1670, 1552..1671, 1552..1674, 1566..1688, 1743..2033, 1749..2033, 1750..2034, 1750..2034, 1790..2038		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o2.tw	Method	TBLASTX:Wheat
Start	591	End	748
GI	none	Score	206
Exons	591..746, 592..747, 613..747, 623..748		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.tc	Method	TBLASTX:Cress
Start	633	End	2017
GI	none	Score	220
Exons	633..890, 634..882, 1554..1670, 1555..1671, 1566..1688, 1750..2016, 1761..1943, 1762..1944, 1793..2017		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.gs	Method	GENSCAN
Start	750	End	4068
GI	none	Score	.55
Exons	750..881, 1587..1673, 1753..1934, 2891..3016, 3688..3723, 3933..4068		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3
Gene No.	61053	Strand	-
Start	301	End	4129
Name	OJ000210_15.0302.C3.o1.tw	Method	TBLASTX:Wheat
Start	1629	End	2037
GI	none	Score	60
Exons	1629..1673, 1629..1688, 1743..2033, 1750..2037, 1752..2033, 1790..2035		
Seq. No.	29569	Seq. ID	OJ000210_15.0302.C3

Gene No. 61053 Strand -  
 Start 301 End 4129  
 Name OJ000210\_15.0302.C3.o2.gp Method AAT/GAP  
 Start 3928 End 4129  
 GI 427610 Score 294  
 Exons 3928..4129  
 GI Descrip. 5852172/emb[CAB55410.1] 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]

Seq. No. 29570 Seq. ID OJ000210\_15.0302.C4  
 Gene No. 61054 Strand +  
 Start 240 End 6700  
 Name OJ000210\_15.0302.C4.o1.gs Method GENSCAN  
 Start 240 End 6700  
 GI none Score .58  
 Exons 240..414, 451..2885, 2949..3676, 3752..4162, 4170..4578, 4679..5766, 5884..6700

Seq. No. 29570 Seq. ID OJ000210\_15.0302.C4  
 Gene No. 61054 Strand +  
 Start 240 End 6700  
 Name OJ000210\_15.0302.C4.o1.np Method AAT/NAP  
 Start 1027 End 6697  
 GI 6498441 Score 7022  
 Exons 1027..2091, 2422..2885, 2949..3322, 3506..3640, 3815..4120, 4359..4753, 4925..6322, 6416..6697  
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 29570 Seq. ID OJ000210\_15.0302.C4  
 Gene No. 61055 Strand +  
 Start 11218 End 19348  
 Name OJ000210\_15.0302.C4.o4.np Method AAT/NAP  
 Start 11218 End 14456  
 GI 5852093 Score 52  
 Exons 11218..11299, 12603..12726, 14384..14456  
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No. 29570 Seq. ID OJ000210\_15.0302.C4  
 Gene No. 61055 Strand +  
 Start 11218 End 19348  
 Name OJ000210\_15.0302.C4.o4.gs Method GENSCAN  
 Start 14010 End 19348  
 GI none Score .72  
 Exons 14010..14114, 15842..16022, 16481..16965, 16998..17069, 17597..19003, 19133..19348

Seq. No. 29570 Seq. ID OJ000210\_15.0302.C4  
 Gene No. 61055 Strand +  
 Start 11218 End 19348  
 Name OJ000210\_15.0302.C4.o5.np Method AAT/NAP  
 Start 14010 End 19246  
 GI 6729037 Score 827  
 Exons 14010..14078, 15860..16022, 16481..16971, 17615..17944, 18361..19003, 19116..19246  
 GI Descrip. (AC009177) unknown protein [Arabidopsis thaliana]

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61055	Strand	+
Start	11218	End	19348
Name	OJ000210_15.0302.C4.o1.gp	Method	AAT/GAP
Start	18365	End	18708
GI	2310846	Score	618
Exons	18365..18708		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61056	Strand	+
Start	32541	End	32672
Name	OJ000210_15.0302.C4.o3.gp	Method	AAT/GAP
Start	32541	End	32672
GI	40004_2.R1084	Score	242
Exons	32541..32672		
GI Descrip.	'4336436/gb AAD17805  1.0e-37 (AF092432) protein phosphatase type 2C [Lotus japonicus]'		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61057	Strand	-
Start	7326	End	12371
Name	OJ000210_15.0302.C4.o2.np	Method	AAT/NAP
Start	7326	End	10544
GI	6907089	Score	4353
Exons	7326..9184, 9282..10544		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61057	Strand	-
Start	7326	End	12371
Name	OJ000210_15.0302.C4.o3.np	Method	AAT/NAP
Start	9641	End	12371
GI	5922623	Score	163
Exons	9641..9681, 11359..11431, 11615..11776, 12291..12371		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61058	Strand	-
Start	13081	End	13458
Name	OJ000210_15.0302.C4.o3.gs	Method	GENSCAN
Start	13081	End	13458
GI	none	Score	.99
Exons	13081..13458		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61059	Strand	-
Start	21016	End	27373
Name	OJ000210_15.0302.C4.o5.gs	Method	GENSCAN
Start	21016	End	27373
GI	none	Score	.72
Exons	21016..21236, 21510..21567, 22035..22090, 23166..23290, 24062..24238, 24399..24544, 24632..24661, 24755..24870, 24986..25083, 25416..25849, 27059..27187, 27260..27373		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61059	Strand	-
Start	21016	End	27373
Name	OJ000210_15.0302.C4.o2.gp	Method	AAT/GAP
Start	21040	End	22351
GI	LIB3432-022-P1-K1-D7	Score	697
Exons	21040..21236, 21510..21567, 22035..22090, 22247..22351		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-158 Rice complete chloroplast genome'		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o6.tw	Method	TBLASTX:Wheat
Start	1179	End	1568
GI	none	Score	54
Exons	1179..1223, 1230..1328, 1247..1327, 1295..1456, 1311..1568		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o10.tm	Method	TBLASTX:Maize
Start	1182	End	1466
GI	none	Score	197
Exons	1182..1454, 1218..1466, 1220..1465		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o5.tw	Method	TBLASTX:Wheat
Start	1576	End	5059
GI	none	Score	210
Exons	1576..1629, 4667..4876, 4690..4866, 4910..5059, 4921..5058		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o3.tw	Method	TBLASTX:Wheat
Start	2306	End	2792
GI	none	Score	405
Exons	2306..2479, 2307..2792, 2501..2761		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o1.tw	Method	TBLASTX:Wheat
Start	2957	End	3419
GI	none	Score	583
Exons	2957..3412, 2958..3419, 2958..3413		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o4.ts	Method	TBLASTX:Soybean
Start	2997	End	3362
GI	none	Score	114
Exons	2997..3221, 3228..3362		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o2.tm	Method	TBLASTX:Maize
Start	3087	End	3443
GI	none	Score	389
Exons	3087..3443, 3122..3433, 3327..3443		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o3.tm	Method	TBLASTX:Maize
Start	3470	End	3854
GI	none	Score	357
Exons	3470..3835, 3471..3854		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o2.tw	Method	TBLASTX:Wheat
Start	3527	End	3926
GI	none	Score	451
Exons	3527..3922, 3528..3926		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o2.ts	Method	TBLASTX:Soybean
Start	3606	End	3926
GI	none	Score	220
Exons	3606..3926, 3623..3766		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o9.tw	Method	TBLASTX:Wheat
Start	5062	End	5374
GI	none	Score	183
Exons	5062..5160, 5123..5374		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o4.tm	Method	TBLASTX:Maize
Start	5567	End	5910
GI	none	Score	345
Exons	5567..5890, 5611..5877, 5761..5910		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o4.tw	Method	TBLASTX:Wheat
Start	5704	End	6085
GI	none	Score	378
Exons	5704..5781, 5705..6085, 5806..6054		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o7.tw	Method	TBLASTX:Wheat
Start	6086	End	6688
GI	none	Score	261
Exons	6086..6370, 6091..6369, 6562..6684, 6563..6688		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o8.tm	Method	TBLASTX:Maize
Start	7670	End	25065
GI	none	Score	72
Exons	7670..7807, 24755..24871, 24816..24872, 24987..25064, 24988..25065		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o1.ts	Method	TBLASTX:Soybean
Start	15893	End	16734
GI	none	Score	130
Exons	15893..16024, 15904..16023, 16479..16613, 16480..16734		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o8.tw	Method	TBLASTX:Wheat
Start	15973	End	16701
GI	none	Score	66
Exons	15973..16023, 15974..16024, 16479..16610, 16480..16701		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o1.tm	Method	TBLASTX:Maize
Start	16474	End	16884
GI	none	Score	355
Exons	16474..16779, 16479..16616, 16604..16681, 16774..16884, 16780..16884		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o5.tm	Method	TBLASTX:Maize
Start	16884	End	17941
GI	none	Score	116
Exons	16884..16964, 16885..16965, 16892..16966, 16893..16967, 17612..17734, 17626..17703, 17665..17742, 17722..17817, 17738..17890, 17741..17839, 17915..17941		

Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o9.tm	Method	TBLASTX:Maize
Start	18581	End	18830

GI	none	Score	224
Exons	18581..18820, 18631..18792, 18651..18830		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o7.tm	Method	TBLASTX:Maize
Start	19115	End	19459
GI	none	Score	235
Exons	19115..19237, 19123..19347, 19124..19342, 19132..19347, 19403..19459		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o6.tm	Method	TBLASTX:Maize
Start	21511	End	24111
GI	none	Score	76
Exons	21511..21567, 21512..21568, 22026..22091, 22027..22092, 22036..22092, 22233..22337, 22241..22321, 22246..22338, 22249..22338, 23164..23319, 23165..23323, 23165..23320, 23166..23327, 23167..23328, 23622..23738, 23631..23735, 23836..23919, 23854..23916, 23861..23917, 24061..24111, 24062..24109		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o3.ts	Method	TBLASTX:Soybean
Start	27443	End	28056
GI	none	Score	80
Exons	27443..27493, 27584..27925, 27898..28056		
Seq. No.	29570	Seq. ID	OJ000210_15.0302.C4
Gene No.	61060	Strand	-
Start	29013	End	30314
Name	OJ000210_15.0302.C4.o6.gs	Method	GENSCAN
Start	29013	End	30314
GI	none	Score	.47
Exons	29013..30314		
Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61061	Strand	+
Start	6335	End	7546
Name	OJ000210_15.0302.C5.o2.gs	Method	GENSCAN
Start	6335	End	7546
GI	none	Score	.45
Exons	6335..6346, 6768..6964, 7312..7546		
Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61062	Strand	-
Start	69	End	4011
Name	OJ000210_15.0302.C5.o1.np	Method	AAT/NAP
Start	69	End	3708
GI	4512655	Score	667
Exons	69..237, 886..1043, 1474..1759, 2472..2710, 3675..3708		
GI Descrip.	(AC007048) putative protein phosphatase 2C [Arabidopsis		



thaliana]

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61062	Strand	-
Start	69	End	4011
Name	OJ000210_15.0302.C5.o1.gp	Method	AAT/GAP
Start	883	End	1539
GI	40004_2.R1084	Score	392
Exons	883..1043, 1474..1539		
GI Descrip.	'4336436/gb AAD17805  1.0e-37 (AF092432) protein phosphatase type 2C [Lotus japonicus]'		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61062	Strand	-
Start	69	End	4011
Name	OJ000210_15.0302.C5.o1.gs	Method	GENSCAN
Start	889	End	3708
GI	none	Score	.96
Exons	889..1043, 1474..1759, 2472..2723, 3670..3708		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61062	Strand	-
Start	69	End	4011
Name	OJ000210_15.0302.C5.o2.gp	Method	AAT/GAP
Start	2404	End	4011
GI	23790_1.R1084	Score	1156
Exons	2404..2433, 2472..2723, 3670..4011		
GI Descrip.	'4336436/gb AAD17805  1.0e-31 (AF092432) protein phosphatase type 2C [Lotus japonicus]'		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o1.tc	Method	TBLASTX:Cress
Start	872	End	2699
GI	none	Score	138
Exons	872..1045, 883..1050, 1463..1570, 1463..1663, 1464..1610, 1616..1762, 1635..1733, 2463..2660, 2482..2649, 2667..2699		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o2.tm	Method	TBLASTX:Maize
Start	872	End	1535
GI	none	Score	194
Exons	872..1045, 883..1050, 1463..1534, 1464..1535		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o2.ts	Method	TBLASTX:Soybean
Start	883	End	1762
GI	none	Score	108
Exons	883..1044, 883..1050, 884..1045, 1463..1663, 1464..1616, 1616..1762, 1617..1724		

Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
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Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o1.tw	Method	TBLASTX:Wheat
Start	922	End	1697
GI	none	Score	70
Exons	922..1050, 935..1057, 980..1045, 1463..1663, 1464..1649, 1631..1696, 1635..1697		
Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o1.tm	Method	TBLASTX:Maize
Start	1709	End	3710
GI	none	Score	77
Exons	1709..1762, 1709..1762, 2476..2724, 2481..2726, 2482..2724, 3668..3709, 3669..3710		
Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o1.ts	Method	TBLASTX:Soybean
Start	2463	End	2725
GI	none	Score	138
Exons	2463..2660, 2472..2648, 2663..2725		
Seq. No.	29571	Seq. ID	OJ000210_15.0302.C5
Gene No.	61063	Strand	-
Start	3918	End	8050
Name	OJ000210_15.0302.C5.o2.np	Method	AAT/NAP
Start	3918	End	8050
GI	81286	Score	63
Exons	3918..4057, 6810..7188, 8029..8050		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		
Seq. No.	29572	Seq. ID	OJ000210_15.0302.C6
Gene No.	61064	Strand	-
Start	1264	End	3087
Name	OJ000210_15.0302.C6.o1.gp	Method	AAT/GAP
Start	1120	End	1276
GI	2796891	Score	297
Exons	1120..1276		
Seq. No.	29572	Seq. ID	OJ000210_15.0302.C6
Gene No.	61064	Strand	-
Start	1264	End	3087
Name	OJ000210_15.0302.C6.o1.gs	Method	GENSCAN
Start	1264	End	3016
GI	none	Score	.8
Exons	1264..1426, 1555..1649, 1749..1808, 1895..2003, 2092..2258, 2348..2467, 2555..2641, 2722..2850, 2938..3016		
Seq. No.	29572	Seq. ID	OJ000210_15.0302.C6
Gene No.	61064	Strand	-
Start	1264	End	3087
Name	OJ000210_15.0302.C6.o1.np	Method	AAT/NAP
Start	1333	End	3087

GI 4204309 Score 697  
 Exons 1333..1463, 1555..1649, 1749..2003, 2092..2266, 2310..2467, 2722..2850, 2938..3087  
 GI Descrip. (AC003027) lcl|prt\_seq No definition line found [Arabidopsis thaliana]

Seq. No. 29572 Seq. ID OJ000210\_15.0302.C6  
 Gene No. 61064 Strand -  
 Start 1264 End 3087  
 Name OJ000210\_15.0302.C6.o1.tm Method TBLASTX:Maize  
 Start 1370 End 2129  
 GI none Score 135  
 Exons 1370..1465, 1380..1475, 1552..1653, 1554..1661, 1557..1652, 1561..1677, 1746..1790, 1750..1791, 1881..2003, 1895..2002, 2079..2129

Seq. No. 29572 Seq. ID OJ000210\_15.0302.C6  
 Gene No. 61064 Strand -  
 Start 1264 End 3087  
 Name OJ000210\_15.0302.C6.o2.tm Method TBLASTX:Maize  
 Start 2546 End 3011  
 GI none Score 76  
 Exons 2546..2623, 2550..2633, 2555..2608, 2557..2637, 2698..2853, 2747..2851, 2940..3011, 2940..3011

Seq. No. 29573 Seq. ID OJ000210\_15.0302.C7  
 Gene No. 61065 Strand -  
 Start 323 End 406  
 Name OJ000210\_15.0302.C7.o1.np Method AAT/NAP  
 Start 323 End 406  
 GI 6721547 Score 82  
 Exons 323..406  
 GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No. 29574 Seq. ID OJ000210\_15.0302.C8  
 Gene No. 61066 Strand +  
 Start 1898 End 3256  
 Name OJ000210\_15.0302.C8.o1.np Method AAT/NAP  
 Start 1898 End 3256  
 GI 860891 Score 102  
 Exons 1898..2078, 3212..3256  
 GI Descrip. (X87636) PSII cytochrome b559 alpha chain [Beta vulgaris] gi|860897|emb|CAA60972| (X87637) PSII cytochrome b599 alpha chain [Beta vulgaris]

Seq. No. 29574 Seq. ID OJ000210\_15.0302.C8  
 Gene No. 61067 Strand -  
 Start 45 End 4651  
 Name OJ000210\_15.0302.C8.o1.gs Method GENSCAN  
 Start 45 End 4651  
 GI none Score .46  
 Exons 45..154, 607..727, 761..917, 1270..1535, 2468..2580, 4591..4651

Seq. No. 29574 Seq. ID OJ000210\_15.0302.C8  
 Gene No. 61067 Strand -  
 Start 45 End 4651  
 Name OJ000210\_15.0302.C8.o1.gp Method AAT/GAP

Start	1271	End	1870
GI	5607605	Score	94
Exons	1271..1291, 1794..1870		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-158 Rice complete chloroplast genome		

Seq. No.	29574	Seq. ID	OJ000210_15.0302.C8
Gene No.	61068	Strand	-
Start	8498	End	8737
Name	OJ000210_15.0302.C8.o3.gs	Method	GENSCAN
Start	8498	End	8737
GI	none	Score	.71
Exons	8498..8737		

Seq. No.	29575	Seq. ID	OJ000210_15.0302.C9
Gene No.	61069	Strand	-
Start	486	End	900
Name	OJ000210_15.0302.C9.o1.gs	Method	GENSCAN
Start	486	End	900
GI	none	Score	.61
Exons	486..593, 757..900		

Seq. No.	29576	Seq. ID	OJ000210_15.0302.C10
Gene No.	61070	Strand	-
Start	98	End	836
Name	OJ000210_15.0302.C10.o1.gs	Method	GENSCAN
Start	98	End	713
GI	none	Score	.64
Exons	98..308, 671..713		

Seq. No.	29576	Seq. ID	OJ000210_15.0302.C10
Gene No.	61070	Strand	-
Start	98	End	836
Name	OJ000210_15.0302.C10.o1.np	Method	AAT/NAP
Start	255	End	836
GI	5042454	Score	204
Exons	255..315, 677..836		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29577	Seq. ID	OJ000210_15.0302.C11
Gene No.	61071	Strand	+
Start	1181	End	2727
Name	OJ000210_15.0302.C11.o1.gs	Method	GENSCAN
Start	1181	End	2727
GI	none	Score	.72
Exons	1181..1265, 2387..2511, 2635..2727		

Seq. No.	29577	Seq. ID	OJ000210_15.0302.C11
Gene No.	61072	Strand	-
Start	14095	End	17849
Name	OJ000210_15.0302.C11.o1.np	Method	AAT/NAP
Start	13154	End	15629
GI	3924594	Score	95
Exons	13154..13227, 15431..15629		
GI Descrip.	(AF069442) putative ribonucleoprotein [Arabidopsis thaliana] gi 4262139 gb AAD14439  (AC005275) putative ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	29577	Seq. ID	OJ000210_15.0302.C11
Gene No.	61072	Strand	-
Start	14095	End	17849
Name	OJ000210_15.0302.C11.o3.gs	Method	GENSCAN
Start	14095	End	17596
GI	none	Score	.68
Exons	14095..14213, 15461..15557, 15605..15697, 16084..16156, 16626..16668, 16951..16978, 17510..17596		

Seq. No.	29577	Seq. ID	OJ000210_15.0302.C11
Gene No.	61072	Strand	-
Start	14095	End	17849
Name	OJ000210_15.0302.C11.o2.np	Method	AAT/NAP
Start	16205	End	17849
GI	5042454	Score	246
Exons	16205..16265, 16632..16800, 17496..17569, 17743..17849		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29578	Seq. ID	OJ000210_15.0302.C12
Gene No.	61073	Strand	+
Start	1	End	917
Name	OJ000210_15.0302.C12.o1.np	Method	AAT/NAP
Start	1	End	917
GI	6907089	Score	1525
Exons	1..917		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	29579	Seq. ID	OJ000210_15.0302.C13
Gene No.	61074	Strand	+
Start	1	End	567
Name	OJ000210_15.0302.C13.o1.np	Method	AAT/NAP
Start	1	End	567
GI	5803259	Score	700
Exons	1..567		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	29579	Seq. ID	OJ000210_15.0302.C13
Gene No.	61074	Strand	+
Start	1	End	567
Name	OJ000210_15.0302.C13.o1.gs	Method	GENSCAN
Start	182	End	498
GI	none	Score	.8
Exons	182..498		

Seq. No.	29580	Seq. ID	OJ000210_15.0302.C14
Gene No.	61075	Strand	+
Start	1	End	819
Name	OJ000210_15.0302.C14.o1.np	Method	AAT/NAP
Start	1	End	819
GI	6498441	Score	1003
Exons	1..626, 774..819		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	29580	Seq. ID	OJ000210_15.0302.C14
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Gene No. 61075  
 Start 1  
 Name OJ000210\_15.0302.C14.o1.gs  
 Start 74  
 GI none  
 Exons 74..272, 315..731

Strand +  
 End 819  
 Method GENSCAN  
 End 731  
 Score .44

Seq. No. 29581  
 Gene No. 61076  
 Start 231  
 Name OJ000210\_15.0302.C15.o1.gs  
 Start 231  
 GI none  
 Exons 231..274

Seq. ID OJ000210\_15.0302.C15  
 Strand +  
 End 274  
 Method GENSCAN  
 End 274  
 Score .58

Seq. No. 29582  
 Gene No. 61077  
 Start 1  
 Name OJ000210\_15.0302.C16.o1.np  
 Start 1  
 GI 6498441  
 Exons 1..441, 616..844

Seq. ID OJ000210\_15.0302.C16  
 Strand -  
 End 844  
 Method AAT/NAP  
 End 844  
 Score 876

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 29582  
 Gene No. 61077  
 Start 1  
 Name OJ000210\_15.0302.C16.o1.gs  
 Start 93  
 GI none  
 Exons 93..815

Seq. ID OJ000210\_15.0302.C16  
 Strand -  
 End 844  
 Method GENSCAN  
 End 815  
 Score .57

Seq. No. 29582  
 Gene No. 61077  
 Start 1  
 Name OJ000210\_15.0302.C16.o1.tw  
 Start 334  
 GI none  
 Exons 334..729, 337..687, 345..728

Seq. ID OJ000210\_15.0302.C16  
 Strand -  
 End 844  
 Method TBLASTX:Wheat  
 End 729  
 Score 280

Seq. No. 29582  
 Gene No. 61077  
 Start 1  
 Name OJ000210\_15.0302.C16.o1.ts  
 Start 345  
 GI none  
 Exons 345..650, 490..633

Seq. ID OJ000210\_15.0302.C16  
 Strand -  
 End 844  
 Method TBLASTX:Soybean  
 End 650  
 Score 84

Seq. No. 29582  
 Gene No. 61077  
 Start 1  
 Name OJ000210\_15.0302.C16.o1.tm  
 Start 402  
 GI none  
 Exons 402..785, 421..786

Seq. ID OJ000210\_15.0302.C16  
 Strand -  
 End 844  
 Method TBLASTX:Maize  
 End 786  
 Score 234

Seq. No.	29583	Seq. ID	OJ000210_15.0302.C17
Gene No.	61078	Strand	+
Start	1	End	903
Name	OJ000210_15.0302.C17.o1.np	Method	AAT/NAP
Start	1	End	903
GI	5803259	Score	946
Exons	1..903		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	29583	Seq. ID	OJ000210_15.0302.C17
Gene No.	61078	Strand	+
Start	1	End	903
Name	OJ000210_15.0302.C17.o1.gs	Method	GENSCAN
Start	45	End	717
GI	none	Score	.73
Exons	45..164, 293..717		

Seq. No.	29584	Seq. ID	OJ000210_15.0302.C18
Gene No.	61079	Strand	-
Start	31	End	157
Name	OJ000210_15.0302.C18.o1.gs	Method	GENSCAN
Start	31	End	157
GI	none	Score	.55
Exons	31..157		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.np	Method	AAT/NAP
Start	151	End	4107
GI	5305740	Score	1543
Exons	151..291, 377..439, 525..641, 1090..1212, 1289..1381, 1481..1600, 1815..1931, 2085..2180, 2278..2427, 2799..2953, 3039..3079, 3158..3240, 3710..4107		
GI Descrip.	(AF135862) precursor monofunctional aspartokinase [Glycine max]		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o2.tm	Method	TBLASTX:Maize
Start	154	End	644
GI	none	Score	107
Exons	154..294, 160..294, 357..449, 374..487, 518..640, 525..644, 527..643		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.gs	Method	GENSCAN
Start	169	End	4147
GI	none	Score	.68
Exons	169..262, 388..488, 525..670, 1011..1122, 1289..1381, 1481..1600, 1815..1931, 2278..2427, 2799..2953, 3039..3079, 3158..3240, 3710..4147		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
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Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.tw	Method	TBLASTX:Wheat
Start	173	End	1146
GI	none	Score	82
Exons	173..292, 181..294, 221..292, 356..487, 375..443, 520..612, 520..642, 525..695, 594..644, 1048..1146		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.tc	Method	TBLASTX:Cress
Start	196	End	3856
GI	none	Score	85
Exons	196..294, 357..440, 374..442, 375..443, 520..612, 525..644, 593..643, 600..644, 1089..1220, 1094..1219, 1096..1224, 1096..1221, 1273..1368, 1273..1341, 1280..1378, 1281..1373, 1286..1384, 1481..1600, 1482..1601, 1812..1931, 1813..1932, 2070..2183, 2071..2181, 2273..2419, 2277..2420, 2278..2430, 2279..2440, 2313..2468, 2760..2948, 2768..2947, 2799..2960, 3152..3247, 3157..3240, 3714..3848, 3725..3856		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.ts	Method	TBLASTX:Soybean
Start	208	End	3848
GI	none	Score	68
Exons	208..294, 221..292, 356..487, 375..443, 525..644, 526..612, 1048..1200, 1094..1219, 1096..1221, 1280..1378, 1281..1379, 1286..1387, 1481..1600, 1482..1601, 1491..1601, 1516..1602, 1812..1931, 1813..1935, 2070..2174, 2071..2175, 2276..2419, 2277..2420, 2278..2430, 2278..2430, 2279..2440, 2799..2948, 2803..2928, 2820..2942, 3152..3247, 3157..3240, 3725..3847, 3726..3848		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o1.tm	Method	TBLASTX:Maize
Start	1089	End	2952
GI	none	Score	45
Exons	1089..1214, 1097..1219, 1099..1221, 1280..1378, 1281..1379, 1286..1387, 1430..1600, 1463..1594, 1480..1614, 1482..1601, 1812..1931, 1815..1934, 2070..2183, 2071..2181, 2083..2190, 2084..2203, 2273..2419, 2278..2430, 2279..2437, 2799..2948, 2799..2951, 2803..2952		

Seq. No.	29585	Seq. ID	OJ000210_11.0302.C2
Gene No.	61080	Strand	-
Start	169	End	4147
Name	OJ000210_11.0302.C2.o3.tm	Method	TBLASTX:Maize
Start	3714	End	3859
GI	none	Score	173
Exons	3714..3857, 3725..3859		

Seq. No.	29586	Seq. ID	OJ000210_11.0302.C3
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Gene No. 61081  
 Start 1133  
 Name OJ000210\_11.0302.C3.o1.gs  
 Start 1133  
 GI none  
 Exons 1133..1516

Strand +  
 End 1516  
 Method GENSCAN  
 End 1516  
 Score .94

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o1.tm  
 Start 936  
 GI none  
 Exons 936..980, 1097..1201, 1115..1210, 1319..1495, 1319..1495, 1326..1496, 1333..1497, 1824..1883, 1825..1887, 1828..1887

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method TBLASTX:Maize  
 End 1887  
 Score 105

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o1.tc  
 Start 1100  
 GI none  
 Exons 1100..1201, 1319..1498, 1326..1496, 1824..1862, 1857..1922, 1858..1947

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method TBLASTX:Cress  
 End 1947  
 Score 167

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o1.ts  
 Start 1115  
 GI none  
 Exons 1115..1201, 1134..1199, 1317..1478, 1319..1477

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method TBLASTX:Soybean  
 End 1478  
 Score 44

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o1.np  
 Start 1325  
 GI 3757520  
 Exons 1325..1598, 1897..2054, 3040..3141, 6214..6233  
 GI Descrip. (AC005167) bHLH transcription factor [Arabidopsis thaliana]

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method AAT/NAP  
 End 6233  
 Score 148

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o2.gs  
 Start 1785  
 GI none  
 Exons 1785..2054, 2277..2429, 3040..3749

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method GENSCAN  
 End 3749  
 Score .53

Seq. No. 29586  
 Gene No. 61082  
 Start 1325  
 Name OJ000210\_11.0302.C3.o2.ts  
 Start 1830  
 GI none  
 Exons 1830..1925, 1840..1929, 1933..2055, 1968..2060, 1968..2057,

Seq. ID OJ000210\_11.0302.C3  
 Strand -  
 End 6233  
 Method TBLASTX:Soybean  
 End 3148  
 Score 110

3037..3135, 3037..3135, 3041..3148

Seq. No.	29586	Seq. ID	OJ000210_11.0302.C3
Gene No.	61082	Strand	-
Start	1325	End	6233
Name	OJ000210_11.0302.C3.o2.tm	Method	TBLASTX:Maize
Start	3028	End	3258
GI	none	Score	147
Exons	3028..3135, 3031..3135, 3035..3148, 3187..3258, 3188..3250		

Seq. No.	29587	Seq. ID	OJ000210_11.0302.C4
Gene No.	61083	Strand	-
Start	120	End	1840
Name	OJ000210_11.0302.C4.o1.gs	Method	GENSCAN
Start	120	End	1840
GI	none	Score	.49
Exons	120..225, 594..670, 980..1057, 1139..1243, 1673..1840		

Seq. No.	29587	Seq. ID	OJ000210_11.0302.C4
Gene No.	61084	Strand	-
Start	1849	End	2090
Name	OJ000210_11.0302.C4.o1.tm	Method	TBLASTX:Maize
Start	1558	End	1978
GI	none	Score	57
Exons	1558..1599, 1609..1647, 1610..1648, 1651..1695, 1651..1695, 1763..1837, 1786..1806, 1824..1973, 1838..1978, 1840..1971		

Seq. No.	29587	Seq. ID	OJ000210_11.0302.C4
Gene No.	61084	Strand	-
Start	1849	End	2090
Name	OJ000210_11.0302.C4.o1.np	Method	AAT/NAP
Start	1849	End	2090
GI	4455250	Score	46
Exons	1849..1973, 2032..2090		
GI Descrip.	(AL035523) putative protein [Arabidopsis thaliana]		

Seq. No.	29588	Seq. ID	OJ000210_11.0302.C5
Gene No.	61085	Strand	-
Start	1	End	1373
Name	OJ000210_11.0302.C5.o1.np	Method	AAT/NAP
Start	1	End	1372
GI	4455250	Score	311
Exons	1..176, 254..294, 596..665, 1045..1179, 1271..1372		
GI Descrip.	(AL035523) putative protein [Arabidopsis thaliana]		

Seq. No.	29588	Seq. ID	OJ000210_11.0302.C5
Gene No.	61085	Strand	-
Start	1	End	1373
Name	OJ000210_11.0302.C5.o1.tm	Method	TBLASTX:Maize
Start	22	End	1373
GI	none	Score	150
Exons	22..78, 75..179, 81..179, 253..294, 254..295, 255..296, 421..471, 428..472, 429..470, 586..666, 591..671, 1024..1107, 1042..1107, 1044..1115, 1103..1150, 1108..1161, 1108..1161, 1245..1367, 1253..1372, 1254..1373		

Seq. No.	29588	Seq. ID	OJ000210_11.0302.C5
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Gene No.	61085	Strand	-
Start	1	End	1373
Name	OJ000210_11.0302.C5.o1.gp	Method	AAT/GAP
Start	44	End	1310
GI	23842_1.R1084	Score	730
Exons	44..176, 254..294, 427..468, 596..665, 1045..1166, 1255..1310		
GI Descrip.	'4455250/emb CAB36749.1  1.0e-34 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	29588	Seq. ID	OJ000210_11.0302.C5
Gene No.	61085	Strand	-
Start	1	End	1373
Name	OJ000210_11.0302.C5.o1.gs	Method	GENSCAN
Start	54	End	1166
GI	none	Score	.76
Exons	54..176, 254..294, 596..665, 1045..1166		

Seq. No.	29588	Seq. ID	OJ000210_11.0302.C5
Gene No.	61085	Strand	-
Start	1	End	1373
Name	OJ000210_11.0302.C5.o1.ts	Method	TBLASTX:Soybean
Start	96	End	1373
GI	none	Score	64
Exons	96..179, 1042..1158, 1057..1146, 1267..1350, 1268..1372, 1269..1373		

Seq. No.	29589	Seq. ID	OJ000210_11.0302.C6
Gene No.	61086	Strand	-
Start	24	End	3678
Name	OJ000210_11.0302.C6.o1.gs	Method	GENSCAN
Start	24	End	3577
GI	none	Score	.84
Exons	24..94, 147..263, 617..644, 1030..1092, 2659..2843, 3176..3577		

Seq. No.	29589	Seq. ID	OJ000210_11.0302.C6
Gene No.	61086	Strand	-
Start	24	End	3678
Name	OJ000210_11.0302.C6.o1.gp	Method	AAT/GAP
Start	1397	End	3678
GI	none	Score	1394
Exons	1397..1433, 2659..2843, 3176..3678		

Seq. No.	29589	Seq. ID	OJ000210_11.0302.C6
Gene No.	61087	Strand	-
Start	5284	End	5573
Name	OJ000210_11.0302.C6.o1.tm	Method	TBLASTX:Maize
Start	2	End	766
GI	none	Score	82
Exons	2..97, 2..91, 6..95, 7..96, 189..266, 189..266, 618..647, 731..766		

Seq. No.	29589	Seq. ID	OJ000210_11.0302.C6
Gene No.	61087	Strand	-
Start	5284	End	5573
Name	OJ000210_11.0302.C6.o2.gs	Method	GENSCAN
Start	5284	End	5573
GI	none	Score	.44

Exons 5284..5573

Seq. No.	29590	Seq. ID	OJ000210_11.0302.C7
Gene No.	61088	Strand	+
Start	1955	End	2074
Name	OJ000210_11.0302.C7.o1.gs	Method	GENSCAN
Start	1955	End	2074
GI	none	Score	.95
Exons	1955..2074		

Seq. No.	29590	Seq. ID	OJ000210_11.0302.C7
Gene No.	61089	Strand	+
Start	4690	End	8623
Name	OJ000210_11.0302.C7.o2.gs	Method	GENSCAN
Start	4690	End	8603
GI	none	Score	.85
Exons	4690..4896, 5016..5075, 5174..5341, 6080..6143, 6577..6872, 7212..7248, 7491..7585, 8408..8603		

Seq. No.	29590	Seq. ID	OJ000210_11.0302.C7
Gene No.	61089	Strand	+
Start	4690	End	8623
Name	OJ000210_11.0302.C7.o1.np	Method	AAT/NAP
Start	4693	End	6881
GI	4204311	Score	330
Exons	4693..4896, 5016..5075, 5174..5341, 6080..6170, 6577..6881		
GI Descrip.	(AC003027) lcl prt_seq No definition line found [Arabidopsis thaliana]		

Seq. No.	29590	Seq. ID	OJ000210_11.0302.C7
Gene No.	61089	Strand	+
Start	4690	End	8623
Name	OJ000210_11.0302.C7.o1.gp	Method	AAT/GAP
Start	6971	End	8623
GI	none	Score	646
Exons	6971..7085, 7212..7248, 7491..7585, 8408..8464, 8543..8623		

Seq. No.	29591	Seq. ID	OJ000210_11.0302.C8
Gene No.	61090	Strand	-
Start	552	End	773
Name	OJ000210_11.0302.C8.o1.gs	Method	GENSCAN
Start	552	End	773
GI	none	Score	.4
Exons	552..773		

Seq. No.	29592	Seq. ID	OJ000210_11.0302.C10
Gene No.	61091	Strand	
Start	296	End	574
Name	OJ000210_11.0302.C10.o1.tm	Method	TBLASTX:Maize
Start	296	End	574
GI	none	Score	165
Exons	296..502, 315..542, 530..574		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61092	Strand	+
Start	22144	End	22479
Name	OJ000210_11.0302.C11.o2.gs	Method	GENSCAN

Start 22144  
 GI none  
 Exons 22144..22479

End 22479  
 Score .89

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61093 Strand +  
 Start 28352 End 31475  
 Name OJ000210\_11.0302.C11.o6.np Method AAT/NAP  
 Start 28352 End 31427  
 GI 4755194 Score 245  
 Exons 28352..28375, 30739..31427  
 GI Descrip. (AC007018) hypothetical protein [Arabidopsis thaliana]  
 gi|4755195|gb|AAD29062.1|AC007018\_10 (AC007018) hypothetical  
 protein [Arabidopsis thaliana]

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61093 Strand +  
 Start 28352 End 31475  
 Name OJ000210\_11.0302.C11.o5.gs Method GENSCAN  
 Start 29128 End 31410  
 GI none Score .96  
 Exons 29128..31410

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61093 Strand +  
 Start 28352 End 31475  
 Name OJ000210\_11.0302.C11.o5.np Method AAT/NAP  
 Start 29933 End 31475  
 GI 6437559 Score 193  
 Exons 29933..30143, 30942..31475  
 GI Descrip. (AC011623) putative DnaJ protein [Arabidopsis thaliana]

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61094 Strand +  
 Start 34789 End 34923  
 Name OJ000210\_11.0302.C11.o5.gp Method AAT/GAP  
 Start 34789 End 34923  
 GI none Score 240  
 Exons 34789..34923

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61095 Strand -  
 Start 759 End 21526  
 Name OJ000210\_11.0302.C11.o1.gs Method GENSCAN  
 Start 759 End 21526  
 GI none Score .68  
 Exons 759..931, 1120..1471, 1543..1842, 2119..2257, 2799..2915,  
 4851..5034, 6225..6338, 6553..6665, 6753..6943, 7357..8267,  
 8358..8422, 8768..8887, 9031..9195, 9317..9494, 9614..9698,  
 9814..9975, 10093..10149, 10301..10396, 10506..10612,  
 10730..10812, 11790..11904, 12556..12602, 15798..16027,  
 16543..16591, 19556..19688, 19765..19929, 21403..21526

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61095 Strand -  
 Start 759 End 21526  
 Name OJ000210\_11.0302.C11.o2.gp Method AAT/GAP

Start 5722 End 6877  
 GI 7253\_2.R1084 Score 1524  
 Exons 5722..6251, 6518..6665, 6753..6877  
 GI Descrip. '2245394 1.0e-22 (U89771) ARF1-binding protein [Arabidopsis thaliana]'

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61095 Strand -  
 Start 759 End 21526  
 Name OJ000210\_11.0302.C11.o1.np Method AAT/NAP  
 Start 6196 End 10658  
 GI 2245378 Score 1153  
 Exons 6196..6274, 6579..6665, 6753..6943, 7357..7658, 7920..8010, 8092..8163, 8350..8526, 8606..8678, 8768..8887, 9031..9195, 9270..9360, 9614..9698, 9814..9954, 10093..10149, 10301..10396, 10506..10658  
 GI Descrip. (U83245) auxin response factor 1 [Arabidopsis thaliana]  
 gi|5080809|gb|AAD39318.1|AC007258\_7 (AC007258) auxin response factor 1 [Arabidopsis thaliana]

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61095 Strand -  
 Start 759 End 21526  
 Name OJ000210\_11.0302.C11.o3.gp Method AAT/GAP  
 Start 7452 End 8176  
 GI 27491\_1.R1084 Score 1438  
 Exons 7452..8176  
 GI Descrip. '4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61095 Strand -  
 Start 759 End 21526  
 Name OJ000210\_11.0302.C11.o4.gp Method AAT/GAP  
 Start 9275 End 10159  
 GI 12155\_1.R1084 Score 686  
 Exons 9275..9360, 9614..9698, 9814..9975, 10093..10159  
 GI Descrip. '2245378 3.0e-43 (U83245) auxin response factor 1 [Arabidopsis thaliana] >gi\_5080809\_gb\_AAD39318.1\_AC007258\_7 (AC007258) auxin response factor 1 [Arabidopsis thaliana]'

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61096 Strand -  
 Start 22168 End 34992  
 Name OJ000210\_11.0302.C11.o5.tm Method TBLASTX:Maize  
 Start 1030 End 1282  
 GI none Score 148  
 Exons 1030..1188, 1031..1282, 1047..1214

Seq. No. 29593 Seq. ID OJ000210\_11.0302.C11  
 Gene No. 61096 Strand -  
 Start 22168 End 34992  
 Name OJ000210\_11.0302.C11.o1.tw Method TBLASTX:Wheat  
 Start 2128 End 7596  
 GI none Score 242  
 Exons 2128..2190, 2219..2284, 2302..2331, 6749..6946, 6752..6946, 6753..6953, 7354..7449, 7356..7448, 7411..7536, 7454..7522,

7504..7596, 7528..7593

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o2.ts	Method	TBLASTX:Soybean
Start	6551	End	9834
GI	none	Score	43
Exons	6551..6667, 6606..6665, 6752..6910, 6752..6919, 6754..6921, 6897..6938, 6920..6946, 7354..7446, 7987..8061, 8141..8215, 8149..8211, 8353..8451, 8446..8526, 8459..8527, 8603..8635, 8642..8689, 8643..8690, 8764..8889, 8768..8890, 9030..9194, 9030..9197, 9031..9216, 9249..9371, 9269..9370, 9561..9698, 9570..9710, 9814..9834		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o1.tm	Method	TBLASTX:Maize
Start	6552	End	9145
GI	none	Score	111
Exons	6552..6665, 6572..6664, 6740..6946, 6742..6945, 6752..6946, 6753..6953, 7312..7401, 7354..7464, 7356..7430, 7404..7523, 7414..7563, 7442..7516, 7455..7547, 7519..7635, 7521..7637, 7528..7635, 7544..7639, 7628..7912, 7636..7920, 7637..7912, 7645..7920, 7936..8025, 7940..8029, 7999..8082, 8007..8093, 8008..8082, 8107..8247, 8114..8212, 8116..8274, 8356..8544, 8401..8445, 8453..8530, 8603..8689, 8604..8690, 8605..8712, 8764..8889, 8765..8890, 8768..8890, 9030..9056, 9030..9062, 9060..9140, 9061..9144, 9061..9138, 9062..9145, 9062..9139		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o1.tc	Method	TBLASTX:Cress
Start	6566	End	8451
GI	none	Score	56
Exons	6566..6667, 6603..6665, 6749..6946, 6752..6946, 8005..8130, 8149..8217, 8356..8451		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o2.tw	Method	TBLASTX:Wheat
Start	8380	End	8889
GI	none	Score	57
Exons	8380..8550, 8580..8681, 8603..8680, 8764..8889, 8765..8824		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o2.tc	Method	TBLASTX:Cress
Start	8461	End	10625
GI	none	Score	70
Exons	8461..8526, 8462..8530, 8603..8653, 8657..8689, 8764..8889, 8768..8890, 9030..9194, 9030..9197, 9031..9216, 9249..9362, 9269..9370, 9561..9716, 9586..9699, 9812..9913, 9814..9912,		

10081..10149, 10307..10399, 10338..10403, 10503..10625,  
10504..10587

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o4.tm	Method	TBLASTX:Maize
Start	9269	End	10622
GI	none	Score	115
Exons	9269..9370, 9270..9362, 9561..9698, 9586..9699, 9758..9976, 9814..9975, 10081..10149, 10301..10399, 10503..10622, 10504..10587, 10506..10619		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o4.ts	Method	TBLASTX:Soybean
Start	9835	End	10604
GI	none	Score	82
Exons	9835..9912, 9836..9913, 10096..10158, 10300..10401, 10301..10399, 10503..10604, 10504..10590		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o2.np	Method	AAT/NAP
Start	22168	End	34992
GI	2392895	Score	287
Exons	22168..22283, 23694..23989, 25450..25882, 25919..25994, 34880..34992		
GI Descrip.	(AF017056) brassinosteroid insensitive 1 [Arabidopsis thaliana] gi 5042156 emb CAB44675.1  (AL078620) brassinosteroid insensitive 1 gene (BRI1) [Arabidopsis thaliana]		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o1.ts	Method	TBLASTX:Soybean
Start	23689	End	23994
GI	none	Score	136
Exons	23689..23994, 23689..23991		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o7.tm	Method	TBLASTX:Maize
Start	23794	End	23994
GI	none	Score	83
Exons	23794..23838, 23800..23892, 23837..23893, 23893..23991, 23894..23992, 23894..23992, 23899..23994		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o3.tw	Method	TBLASTX:Wheat
Start	25503	End	25844
GI	none	Score	72



Exons 25503..25691, 25513..25671, 25719..25844

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o3.ts	Method	TBLASTX:Soybean
Start	25515	End	25880
GI	none	Score	255
Exons	25515..25880		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o3.tc	Method	TBLASTX:Cress
Start	25533	End	25880
GI	none	Score	74
Exons	25533..25880, 25537..25821		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o3.tm	Method	TBLASTX:Maize
Start	25550	End	26016
GI	none	Score	293
Exons	25550..25873, 25554..25916, 25555..25926, 25880..25966, 25881..25988, 25884..26009, 25915..26013, 25972..26016		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o4.gs	Method	GENSCAN
Start	27639	End	28980
GI	none	Score	.81
Exons	27639..27707, 28361..28450, 28792..28980		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o2.tm	Method	TBLASTX:Maize
Start	29891	End	31110
GI	none	Score	97
Exons	29891..30064, 29892..30065, 29893..30336, 29958..30335, 30757..30819, 30901..30975, 31060..31110		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o6.tm	Method	TBLASTX:Maize
Start	30505	End	30725
GI	none	Score	222
Exons	30505..30720, 30505..30714, 30507..30725		

Seq. No.	29593	Seq. ID	OJ000210_11.0302.C11
Gene No.	61096	Strand	-
Start	22168	End	34992
Name	OJ000210_11.0302.C11.o6.gs	Method	GENSCAN
Start	32922	End	33768

GI	none	Score	.61
Exons	32922..33036, 33614..33768		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o1.np	Method	AAT/NAP
Start	1	End	1855
GI	4995890	Score	998
Exons	1..89, 290..456, 545..671, 773..934, 1463..1626, 1720..1855		
GI Descrip.	(AJ242659) serine palmitoyltransferase [Solanum tuberosum]		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o1.tc	Method	TBLASTX:Cress
Start	218	End	674
GI	none	Score	131
Exons	218..457, 291..398, 292..426, 299..457, 516..674, 544..645		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o1.gs	Method	GENSCAN
Start	290	End	922
GI	none	Score	.77
Exons	290..456, 545..671, 773..922		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o1.tm	Method	TBLASTX:Maize
Start	326	End	1588
GI	none	Score	175
Exons	326..457, 326..457, 327..458, 328..459, 328..459, 516..695, 544..675, 758..937, 774..815, 776..931, 858..935, 1457..1585, 1461..1586, 1463..1588		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o1.ts	Method	TBLASTX:Soybean
Start	591	End	1816
GI	none	Score	156
Exons	591..674, 773..931, 782..937, 864..935, 1456..1611, 1457..1612, 1461..1628, 1463..1660, 1485..1628, 1721..1816, 1722..1814		
Seq. No.	29594	Seq. ID	OJ000210_11.0302.C12
Gene No.	61097	Strand	-
Start	1	End	1855
Name	OJ000210_11.0302.C12.o2.tc	Method	TBLASTX:Cress
Start	800	End	1609
GI	none	Score	81
Exons	800..931, 801..920, 805..936, 1457..1558, 1463..1609, 1482..1598		
Seq. No.	29595	Seq. ID	OJ000210_11.0302.C15
Gene No.	61098	Strand	-

Start	1351	End	3051
Name	OJ000210_11.0302.C15.o1.gs	Method	GENSCAN
Start	1351	End	3051
GI	none	Score	.74
Exons	1351..1426, 1932..1982, 2372..3051		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o1.np	Method	AAT/NAP
Start	211	End	1854
GI	3892709	Score	733
Exons	211..376, 406..519, 616..843, 1451..1591, 1687..1854		
GI Descrip.	(AL033545) putative protein [Arabidopsis thaliana]		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o1.tm	Method	TBLASTX:Maize
Start	402	End	1884
GI	none	Score	78
Exons	402..521, 409..522, 412..522, 616..747, 626..742, 755..844, 766..846, 1440..1592, 1448..1591, 1450..1593, 1453..1593, 1672..1872, 1685..1855, 1687..1884		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o1.gs	Method	GENSCAN
Start	406	End	1854
GI	none	Score	.91
Exons	406..519, 616..843, 1451..1591, 1687..1854		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o2.tc	Method	TBLASTX:Cress
Start	406	End	846
GI	none	Score	96
Exons	406..525, 406..513, 616..783, 626..718, 766..846, 779..844		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o2.ts	Method	TBLASTX:Soybean
Start	409	End	829
GI	none	Score	69
Exons	409..522, 413..523, 616..753, 626..679, 754..816, 755..829		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o1.ts	Method	TBLASTX:Soybean
Start	1439	End	1872
GI	none	Score	109
Exons	1439..1591, 1449..1592, 1453..1620, 1454..1594, 1672..1872, 1685..1855		

Seq. No.	29596	Seq. ID	OJ000210_07.0302.C1
Gene No.	61099	Strand	-
Start	211	End	1884
Name	OJ000210_07.0302.C1.o1.tc	Method	TBLASTX:Cress
Start	1461	End	1884
GI	none	Score	80
Exons	1461..1571, 1484..1582, 1485..1574, 1673..1855, 1684..1872, 1686..1883, 1687..1884		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61100	Strand	+
Start	7475	End	12621
Name	OJ000210_07.0302.C2.o2.np	Method	AAT/NAP
Start	5712	End	12621
GI	6063557	Score	251
Exons	5712..5748, 8792..9012, 9261..9397, 12569..12621		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61100	Strand	+
Start	7475	End	12621
Name	OJ000210_07.0302.C2.o2.gs	Method	GENSCAN
Start	7475	End	9016
GI	none	Score	.67
Exons	7475..7546, 8870..9016		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61100	Strand	+
Start	7475	End	12621
Name	OJ000210_07.0302.C2.o3.gs	Method	GENSCAN
Start	10526	End	11312
GI	none	Score	.5
Exons	10526..10636, 10638..10680, 10752..10942, 11211..11312		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61101	Strand	-
Start	141	End	3538
Name	OJ000210_07.0302.C2.o1.np	Method	AAT/NAP
Start	141	End	3481
GI	4725945	Score	671
Exons	141..372, 442..548, 810..888, 1148..1528, 3161..3481		
GI Descrip.	(AL049730) putative SWH1 protein [Arabidopsis thaliana]		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61101	Strand	-
Start	141	End	3538
Name	OJ000210_07.0302.C2.o1.gs	Method	GENSCAN
Start	142	End	3538
GI	none	Score	.52
Exons	142..548, 810..945, 1166..1528, 3164..3538		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61102	Strand	-
Start	12238	End	15298
Name	OJ000210_07.0302.C2.o1.gp	Method	AAT/GAP
Start	12238	End	15235

GI 18845\_1.R1084 Score 1060  
 Exons 12238..12710, 15085..15235  
 GI Descrip. '3850571 6.0e-29 (AC005278) Similar to gb\_U85207 snRNP core Sm protein homolog Sm-X5 from Mus musculus. EST gb\_AA612141 comes from this gene. [Arabidopsis thaliana]'

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61102 Strand -  
 Start 12238 End 15298  
 Name OJ000210\_07.0302.C2.o3.np Method AAT/NAP  
 Start 12594 End 15298  
 GI 3850571 Score 417  
 Exons 12594..12710, 15085..15298  
 GI Descrip. (AC005278) Similar to gb|U85207 snRNP core Sm protein homolog Sm-X5 from Mus musculus. EST gb|AA612141 comes from this gene. [Arabidopsis thaliana]

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61103 Strand -  
 Start 19851 End 25968  
 Name OJ000210\_07.0302.C2.o2.ts Method TBLASTX:Soybean  
 Start 137 End 355  
 GI none Score 210  
 Exons 137..355, 144..344, 145..354

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61103 Strand -  
 Start 19851 End 25968  
 Name OJ000210\_07.0302.C2.o3.tm Method TBLASTX:Maize  
 Start 141 End 394  
 GI none Score 78  
 Exons 141..299, 148..309, 148..375, 149..394

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61103 Strand -  
 Start 19851 End 25968  
 Name OJ000210\_07.0302.C2.o3.tc Method TBLASTX:Cress  
 Start 143 End 342  
 GI none Score 174  
 Exons 143..313, 145..342

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61103 Strand -  
 Start 19851 End 25968  
 Name OJ000210\_07.0302.C2.o5.tm Method TBLASTX:Maize  
 Start 1163 End 1507  
 GI none Score 113  
 Exons 1163..1378, 1164..1346, 1394..1507

Seq. No. 29597 Seq. ID OJ000210\_07.0302.C2  
 Gene No. 61103 Strand -  
 Start 19851 End 25968  
 Name OJ000210\_07.0302.C2.o4.ts Method TBLASTX:Soybean  
 Start 1280 End 1519  
 GI none Score 71  
 Exons 1280..1519, 1406..1513

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o1.tw	Method	TBLASTX:Wheat
Start	12546	End	12711
GI	none	Score	137
Exons	12546..12704, 12589..12711, 12591..12710		
Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o2.tc	Method	TBLASTX:Cress
Start	12589	End	15244
GI	none	Score	130
Exons	12589..12711, 12591..12710, 15056..15244, 15082..15243		
Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o3.ts	Method	TBLASTX:Soybean
Start	12589	End	15268
GI	none	Score	143
Exons	12589..12711, 12591..12710, 15056..15268, 15082..15258		
Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o4.tm	Method	TBLASTX:Maize
Start	12590	End	15244
GI	none	Score	126
Exons	12590..12697, 12591..12710, 12592..12711, 15056..15244, 15065..15172, 15082..15243		
Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o2.tm	Method	TBLASTX:Maize
Start	19561	End	22511
GI	none	Score	45
Exons	19561..19635, 19579..19632, 19667..19726, 19705..19725, 19716..19781, 19716..19820, 19717..19785, 19733..19804, 19848..19943, 19848..19922, 20220..20318, 20223..20312, 20224..20319, 20477..20578, 20488..20583, 20677..20769, 20677..20769, 20846..20914, 20847..20915, 20848..20919, 21063..21260, 21101..21247, 21103..21261, 21316..21429, 21333..21443, 21336..21443, 21507..21614, 21517..21588, 21963..22097, 21964..22095, 22147..22326, 22168..22326, 22169..22327, 22170..22328, 22421..22510, 22425..22511		
Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o2.gp	Method	AAT/GAP
Start	19776	End	20321
GI	2797268	Score	434
Exons	19776..19919, 20223..20321		
GI Descrip.	5326994/emb CAB46363.1  1.0e-22 (AJ223326) DNA topoisomerase I		

[Daucus carota]

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o5.ts	Method	TBLASTX:Soybean
Start	19848	End	20387
GI	none	Score	85
Exons	19848..19922, 19855..19920, 20220..20387, 20224..20319		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o5.gs	Method	GENSCAN
Start	19851	End	24771
GI	none	Score	.96
Exons	19851..19919, 20223..20391, 20477..20580, 20677..20766, 21117..21250, 21338..21428, 21507..21587, 21964..22089, 22169..22325, 22425..22519, 22602..22661, 23013..23093, 23207..23401, 23542..24771		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o1.tc	Method	TBLASTX:Cress
Start	19854	End	24336
GI	none	Score	72
Exons	19854..19922, 19855..19920, 20220..20312, 20220..20318, 20224..20319, 20677..20769, 20846..20911, 21103..21234, 21105..21260, 21313..21429, 21330..21443, 21507..21614, 21514..21588, 21959..22024, 21962..22066, 21964..22104, 21964..22104, 22172..22324, 22176..22328, 22185..22340, 22421..22519, 22422..22520, 22426..22521, 22427..22522, 22599..22664, 22606..22659, 23010..23048, 23014..23094, 23015..23095, 23184..23402, 23193..23402, 23207..23404, 23246..23404, 23531..23680, 23539..23679, 23785..23820, 24256..24336		

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o4.np	Method	AAT/NAP
Start	20232	End	24781
GI	4165154	Score	1902
Exons	20232..20391, 20477..20580, 20677..20766, 20849..20917, 21117..21250, 21338..21428, 21507..21587, 21964..22089, 22169..22325, 22425..22519, 22602..22661, 23013..23093, 23207..23401, 23542..23772, 23803..24132, 24199..24335, 24411..24781		

GI Descrip. (AF115482) topoisomerase I [Nicotiana tabacum]

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o1.ts	Method	TBLASTX:Soybean
Start	20539	End	23243
GI	none	Score	51

Exons 20539..20586, 20692..20769, 20726..20767, 20837..20917,  
20846..20914, 21103..21249, 21105..21281, 21342..21419,  
21391..21450, 21396..21443, 21507..21614, 21511..21588,  
21959..22024, 21963..22061, 21964..22128, 21964..22095,  
22168..22323, 22169..22324, 22170..22328, 22421..22519,  
22422..22520, 22424..22522, 22599..22664, 22606..22662,  
23010..23048, 23011..23091, 23012..23092, 23184..23243,  
23207..23239

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o1.tm	Method	TBLASTX:Maize
Start	22605	End	24403
GI	none	Score	102

Exons 22605..22664, 22606..22662, 23010..23048, 23011..23094,  
23012..23095, 23181..23402, 23207..23404, 23207..23404,  
23531..23683, 23535..23861, 23539..23706, 23540..23890,  
23764..23952, 23767..23868, 23809..23970, 23860..23970,  
23861..24037, 23862..24032, 24058..24339, 24069..24218,  
24088..24339, 24316..24402, 24317..24403

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o3.gp	Method	AAT/GAP
Start	24520	End	25426
GI	1631657	Score	568

Exons 24520..24826, 25357..25426

Seq. No.	29597	Seq. ID	OJ000210_07.0302.C2
Gene No.	61103	Strand	-
Start	19851	End	25968
Name	OJ000210_07.0302.C2.o5.np	Method	AAT/NAP
Start	25175	End	25968
GI	6523547	Score	94

Exons 25175..25452, 25638..25968

GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61104	Strand	+
Start	4123	End	7873
Name	OJ000210_07.0302.C3.o1.gs	Method	GENSCAN
Start	4123	End	7576
GI	none	Score	.9

Exons 4123..4182, 4304..4424, 4514..4592, 4700..4775, 4865..4975,  
5264..5344, 5434..5498, 6005..6074, 6149..6226, 6931..7038,  
7430..7576

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61104	Strand	+
Start	4123	End	7873
Name	OJ000210_07.0302.C3.o1.gp	Method	AAT/GAP
Start	6725	End	7873
GI	17542_1.R1084	Score	1221

Exons 6725..6826, 6903..7038, 7430..7873



GI Descrip. '2827528/emb|CAA16536.1| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61105	Strand	+
Start	10827	End	15816
Name	OJ000210_07.0302.C3.o2.gs	Method	GENSCAN
Start	10827	End	15816
GI	none	Score	.93
Exons	10827..10982, 11854..11963, 12721..12991, 13356..13494, 14176..14545, 14740..15105, 15218..15296, 15407..15606, 15705..15816		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61105	Strand	+
Start	10827	End	15816
Name	OJ000210_07.0302.C3.o2.np	Method	AAT/NAP
Start	10845	End	15810
GI	6907083	Score	1934
Exons	10845..10982, 11854..11963, 12721..12991, 13356..13494, 14176..14545, 14740..15105, 15218..15296, 15407..15606, 15705..15810		

GI Descrip. (AP001129) ESTs AU082304(C61278),C93463(C50982) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6, Pollen-specific protein precursor like. (AL035396) [Oryza sativa]

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61106	Strand	+
Start	18631	End	21717
Name	OJ000210_07.0302.C3.o3.np	Method	AAT/NAP
Start	18631	End	21714
GI	1363325	Score	1727
Exons	18631..19189, 19229..19314, 19375..21714		
GI Descrip.	RNA helicase HEL117 - rat gi 897915 (U25746) RNA helicase [Rattus norvegicus]		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61106	Strand	+
Start	18631	End	21717
Name	OJ000210_07.0302.C3.o4.gs	Method	GENSCAN
Start	18997	End	21717
GI	none	Score	.72
Exons	18997..20739, 20785..21717		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61107	Strand	-
Start	1	End	2005
Name	OJ000210_07.0302.C3.o1.np	Method	AAT/NAP
Start	1	End	2005
GI	4539658	Score	50
Exons	1..26, 568..671, 1975..2005		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61108	Strand	-

Start	17375	End	18876
Name	OJ000210_07.0302.C3.o3.gs	Method	GENSCAN
Start	17375	End	18876
GI	none	Score	.8
Exons	17375..17444, 18238..18511, 18642..18876		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o5.tm	Method	TBLASTX:Maize
Start	4353	End	7581
GI	none	Score	38
Exons	4353..4415, 4513..4590, 4531..4593, 4694..4774, 4698..4775, 4862..4951, 4864..4953, 4865..4948, 5021..5131, 5023..5130, 5031..5132, 5178..5267, 5261..5344, 5263..5340, 5264..5344, 5268..5345, 5431..5496, 5432..5497, 5433..5507, 5434..5502, 5438..5569, 5537..5581, 5552..5596, 5989..6063, 5992..6063, 6003..6074, 6036..6074, 6143..6226, 6145..6228, 6148..6183, 6149..6226, 6728..6826, 6729..6827, 6729..6827, 6730..6840, 6886..7041, 6886..7038, 6902..7054, 7427..7552, 7427..7522, 7508..7576, 7522..7581, 7522..7572		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o5.ts	Method	TBLASTX:Soybean
Start	4522	End	5497
GI	none	Score	99
Exons	4522..4593, 4531..4593, 4694..4774, 4698..4775, 4858..4974, 4865..4948, 5021..5131, 5023..5130, 5261..5344, 5261..5344, 5262..5345, 5433..5492, 5434..5496, 5438..5497		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o6.tc	Method	TBLASTX:Cress
Start	4531	End	5344
GI	none	Score	91
Exons	4531..4593, 4694..4765, 4698..4775, 4840..4890, 4865..4957, 5021..5131, 5023..5130, 5261..5344		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o2.tw	Method	TBLASTX:Wheat
Start	4549	End	5507
GI	none	Score	61
Exons	4549..4593, 4549..4593, 4694..4774, 4698..4775, 4734..4775, 4862..4948, 4863..4949, 4865..4948, 5021..5131, 5023..5130, 5261..5344, 5263..5340, 5264..5344, 5431..5496, 5433..5507, 5434..5502		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o7.tc	Method	TBLASTX:Cress
Start	7417	End	7585

GI	none	Score	237
Exons	7417..7455, 7418..7585, 7516..7581		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o3.tc	Method	TBLASTX:Cress
Start	11851	End	12988
GI	none	Score	76
Exons	11851..11964, 12722..12988, 12724..12987		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o3.ts	Method	TBLASTX:Soybean
Start	11851	End	12988
GI	none	Score	85
Exons	11851..11964, 12724..12873, 12724..12984, 12725..12988		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o3.tm	Method	TBLASTX:Maize
Start	12707	End	12993
GI	none	Score	495
Exons	12707..12988, 12709..12993		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o4.ts	Method	TBLASTX:Soybean
Start	13335	End	14935
GI	none	Score	72
Exons	13335..13490, 13355..13447, 13355..13495, 13356..13499, 14174..14398, 14175..14399, 14373..14546, 14402..14548, 14737..14931, 14738..14935		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o4.tm	Method	TBLASTX:Maize
Start	13359	End	15076
GI	none	Score	204
Exons	13359..13499, 13361..13495, 14162..14398, 14167..14394, 14175..14399, 14373..14546, 14401..14529, 14402..14545, 14716..14970, 14737..15075, 14738..15076		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o5.tc	Method	TBLASTX:Cress
Start	14174	End	14401
GI	none	Score	314
Exons	14174..14401, 14175..14399		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-

Start	23126	End	24856
Name	OJ000210_07.0302.C3.o4.tc	Method	TBLASTX:Cress
Start	14737	End	15603
GI	none	Score	77
Exons	14737..14784, 14738..14824, 14848..14952, 14849..14950, 14996..15106, 15025..15105, 15219..15302, 15403..15603, 15407..15523		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o1.tw	Method	TBLASTX:Wheat
Start	14849	End	15439
GI	none	Score	373
Exons	14849..15106, 14857..15105, 15213..15296, 15215..15298, 15218..15298, 15219..15299, 15406..15438, 15407..15439		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o2.ts	Method	TBLASTX:Soybean
Start	14938	End	22261
GI	none	Score	189
Exons	14938..15105, 14939..15106, 15174..15296, 15211..15285, 15219..15302, 15406..15606, 15407..15607, 22172..22261		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o6.tm	Method	TBLASTX:Maize
Start	15406	End	22318
GI	none	Score	316
Exons	15406..15606, 15407..15607, 15703..15759, 15706..15807, 22172..22261, 22249..22317, 22253..22318		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o2.tm	Method	TBLASTX:Maize
Start	19729	End	20433
GI	none	Score	453
Exons	19729..20265, 19734..20021, 20088..20261, 20286..20426, 20287..20433		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o1.ts	Method	TBLASTX:Soybean
Start	19792	End	20988
GI	none	Score	203
Exons	19792..20040, 19818..20030, 20068..20265, 20091..20276, 20283..20486, 20290..20487, 20497..20532, 20587..20757, 20770..20988		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856

Name	OJ000210_07.0302.C3.o8.tc	Method	TBLASTX:Cress
Start	19795	End	20118
GI	none	Score	187
Exons	19795..20040, 19809..20033, 20068..20118, 20091..20117		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o1.tc	Method	TBLASTX:Cress
Start	20124	End	20901
GI	none	Score	118
Exons	20124..20261, 20131..20265, 20286..20447, 20287..20487, 20587..20736, 20770..20901		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o3.tw	Method	TBLASTX:Wheat
Start	20149	End	20979
GI	none	Score	79
Exons	20149..20325, 20302..20523, 20602..20757, 20770..20979, 20838..20921		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o8.tm	Method	TBLASTX:Maize
Start	20755	End	21008
GI	none	Score	55
Exons	20755..20925, 20769..20831, 20770..20934, 20829..20930, 20931..21008, 20932..21006, 20933..21007		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o6.ts	Method	TBLASTX:Soybean
Start	20989	End	21111
GI	none	Score	188
Exons	20989..21111, 20991..21053		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o1.tm	Method	TBLASTX:Maize
Start	21009	End	21674
GI	none	Score	197
Exons	21009..21053, 21010..21189, 21083..21160, 21162..21188, 21253..21597, 21292..21672, 21324..21674		
Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o2.tc	Method	TBLASTX:Cress
Start	21292	End	21717
GI	none	Score	447
Exons	21292..21717, 21339..21710		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o4.np	Method	AAT/NAP
Start	23126	End	24856
GI	6069646	Score	493
Exons	23126..24114, 24706..24856		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o7.tm	Method	TBLASTX:Maize
Start	23175	End	23727
GI	none	Score	44
Exons	23175..23339, 23223..23345, 23361..23591, 23401..23592, 23604..23714, 23605..23727		

Seq. No.	29598	Seq. ID	OJ000210_07.0302.C3
Gene No.	61109	Strand	-
Start	23126	End	24856
Name	OJ000210_07.0302.C3.o4.tw	Method	TBLASTX:Wheat
Start	23400	End	23660
GI	none	Score	40
Exons	23400..23588, 23437..23592, 23607..23660		

Seq. No.	29599	Seq. ID	OJ000210_07.0302.C4
Gene No.	61110	Strand	-
Start	1	End	732
Name	OJ000210_07.0302.C4.o1.np	Method	AAT/NAP
Start	1	End	732
GI	6907083	Score	169
Exons	1..20, 324..450, 563..732		
GI Descrip.	(AP001129) ESTs AU082304(C61278),C93463(C50982) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F24A6, Pollen-specific protein precursor like. (AL035396) [Oryza sativa]		

Seq. No.	29599	Seq. ID	OJ000210_07.0302.C4
Gene No.	61110	Strand	-
Start	1	End	732
Name	OJ000210_07.0302.C4.o1.tw	Method	TBLASTX:Wheat
Start	390	End	715
GI	none	Score	59
Exons	390..455, 402..449, 555..677, 562..681, 563..715, 569..682, 678..707, 683..712		

Seq. No.	29599	Seq. ID	OJ000210_07.0302.C4
Gene No.	61110	Strand	-
Start	1	End	732
Name	OJ000210_07.0302.C4.o1.gs	Method	GENSCAN
Start	563	End	678
GI	none	Score	.64

Exons 563..678

Seq. No.	29600	Seq. ID	OJ000210_03.0301.C1
Gene No.	61111	Strand	-
Start	844	End	990
Name	OJ000210_03.0301.C1.o1.gs	Method	GENSCAN
Start	844	End	990
GI	none	Score	.61
Exons	844..990		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o1.np	Method	AAT/NAP
Start	1	End	1175
GI	3806098	Score	444
Exons	1..516, 544..724, 764..821, 936..1175		
GI Descrip.	(AF079100) arginine-tRNA-protein transferase 1; Atelp [Arabidopsis thaliana]		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o1.tc	Method	TBLASTX:Cress
Start	2	End	1093
GI	none	Score	53
Exons	2..28, 9..50, 57..119, 74..151, 269..541, 506..718, 794..823, 932..1093, 936..1088, 982..1089		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o2.ts	Method	TBLASTX:Soybean
Start	2	End	481
GI	none	Score	59
Exons	2..28, 9..62, 57..119, 74..151, 239..379, 240..374, 389..481		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o1.gs	Method	GENSCAN
Start	167	End	1033
GI	none	Score	.78
Exons	167..821, 936..1033		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o1.tm	Method	TBLASTX:Maize
Start	270	End	694
GI	none	Score	302
Exons	270..659, 270..578, 272..595, 579..677, 580..693, 581..694		

Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o2.tm	Method	TBLASTX:Maize

Start	767	End	1093
GI	none	Score	72
Exons	767..823, 768..824, 779..826, 932..1093, 936..1088		
Seq. No.	29601	Seq. ID	OJ000210_03.0301.C2
Gene No.	61112	Strand	-
Start	1	End	1175
Name	OJ000210_03.0301.C2.o1.ts	Method	TBLASTX:Soybean
Start	921	End	1100
GI	none	Score	169
Exons	921..1100, 923..1084, 934..1089		
Seq. No.	29602	Seq. ID	OJ000210_03.0301.C4
Gene No.	61113	Strand	-
Start	1	End	675
Name	OJ000210_03.0301.C4.o1.np	Method	AAT/NAP
Start	1	End	675
GI	4581149	Score	100
Exons	1..189, 653..675		
GI Descrip.	(AC006919) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29602	Seq. ID	OJ000210_03.0301.C4
Gene No.	61113	Strand	-
Start	1	End	675
Name	OJ000210_03.0301.C4.o1.tm	Method	TBLASTX:Maize
Start	2	End	346
GI	none	Score	121
Exons	2..94, 3..89, 98..124, 129..344, 137..346, 147..344, 205..345		
Seq. No.	29603	Seq. ID	OJ000210_03.0301.C6
Gene No.	61114	Strand	+
Start	1	End	317
Name	OJ000210_03.0301.C6.o1.np	Method	AAT/NAP
Start	1	End	317
GI	4581149	Score	143
Exons	1..124, 227..317		
GI Descrip.	(AC006919) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29603	Seq. ID	OJ000210_03.0301.C6
Gene No.	61114	Strand	+
Start	1	End	317
Name	OJ000210_03.0301.C6.o1.tm	Method	TBLASTX:Maize
Start	32	End	309
GI	none	Score	67
Exons	32..124, 87..125, 88..126, 89..124, 90..128, 224..307, 224..307, 225..308, 225..308, 226..309, 226..309		
Seq. No.	29603	Seq. ID	OJ000210_03.0301.C6
Gene No.	61114	Strand	+
Start	1	End	317
Name	OJ000210_03.0301.C6.o1.ts	Method	TBLASTX:Soybean
Start	88	End	309
GI	5606759	Score	67
Exons	88..126, 89..124, 224..307, 224..307, 226..309, 226..309		
GI Descrip.	2911056/emb_CAA17566_7.0e-17 (AL021961) hypothetical protein [Arabidopsis thaliana]		



Seq. No.	29604	Seq. ID	OJ000210_03.0301.C7
Gene No.	61115	Strand	+
Start	74	End	185
Name	OJ000210_03.0301.C7.o1.gs	Method	GENSCAN
Start	74	End	185
GI	none	Score	.6
Exons	74..185		
Seq. No.	29605	Seq. ID	OJ000210_03.0301.C9
Gene No.	61116	Strand	-
Start	96	End	9471
Name	OJ000210_03.0301.C9.o1.gs	Method	GENSCAN
Start	96	End	9265
GI	none	Score	.57
Exons	96..166, 196..519, 759..815, 890..1012, 3297..3416, 3470..3685, 6042..6200, 7224..7333, 7610..7631, 8137..8452, 9210..9265		
Seq. No.	29605	Seq. ID	OJ000210_03.0301.C9
Gene No.	61116	Strand	-
Start	96	End	9471
Name	OJ000210_03.0301.C9.o1.np	Method	AAT/NAP
Start	7655	End	9471
GI	3806098	Score	472
Exons	7655..7747, 8116..8452, 9210..9471		
GI Descrip.	(AF079100) arginine-tRNA-protein transferase 1; Atelp [Arabidopsis thaliana]		
Seq. No.	29605	Seq. ID	OJ000210_03.0301.C9
Gene No.	61116	Strand	-
Start	96	End	9471
Name	OJ000210_03.0301.C9.o1.tc	Method	TBLASTX:Cress
Start	7658	End	9470
GI	none	Score	99
Exons	7658..7735, 9208..9345, 9208..9435, 9209..9442, 9209..9469, 9213..9470		
Seq. No.	29605	Seq. ID	OJ000210_03.0301.C9
Gene No.	61116	Strand	-
Start	96	End	9471
Name	OJ000210_03.0301.C9.o1.ts	Method	TBLASTX:Soybean
Start	7658	End	9389
GI	none	Score	145
Exons	7658..7729, 8371..8454, 9209..9388, 9216..9389		
Seq. No.	29605	Seq. ID	OJ000210_03.0301.C9
Gene No.	61116	Strand	-
Start	96	End	9471
Name	OJ000210_03.0301.C9.o1.tm	Method	TBLASTX:Maize
Start	7658	End	9471
GI	none	Score	69
Exons	7658..7786, 7659..7766, 7663..7779, 8119..8217, 8229..8288, 8229..8288, 8289..8351, 8289..8351, 8353..8451, 9204..9470, 9208..9471, 9209..9469		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61117	Strand	+
Start	268	End	753

Name	OJ000210_03.0301.C11.o1.gp	Method	AAT/GAP
Start	268	End	753
GI	none	Score	948
Exons	268..753		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61118	Strand	+
Start	3653	End	11955
Name	OJ000210_03.0301.C11.o2.gs	Method	GENSCAN
Start	3653	End	11955
GI	none	Score	.48
Exons	3653..3910, 3916..4253, 4956..5047, 5190..5264, 8553..8780, 10199..10288, 11041..11288, 11788..11955		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61119	Strand	+
Start	12337	End	21984
Name	OJ000210_03.0301.C11.o3.gs	Method	GENSCAN
Start	12337	End	15997
GI	none	Score	.64
Exons	12337..12371, 13011..13054, 13394..13460, 13567..14380, 14486..15997		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61119	Strand	+
Start	12337	End	21984
Name	OJ000210_03.0301.C11.o1.np	Method	AAT/NAP
Start	14076	End	19723
GI	6498441	Score	6868
Exons	14076..15140, 15471..15934, 15998..16371, 16555..16689, 16864..17185, 17378..17779, 17951..19348, 19442..19723		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61119	Strand	+
Start	12337	End	21984
Name	OJ000210_03.0301.C11.o4.gs	Method	GENSCAN
Start	16061	End	19726
GI	none	Score	1
Exons	16061..19726		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61119	Strand	+
Start	12337	End	21984
Name	OJ000210_03.0301.C11.o3.np	Method	AAT/NAP
Start	17626	End	21984
GI	5042454	Score	584
Exons	17626..17665, 18125..18176, 19426..19724, 20177..20449, 20674..20889, 21106..21209, 21893..21984		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61120	Strand	-
Start	379	End	3025
Name	OJ000210_03.0301.C11.o1.gs	Method	GENSCAN

Start	379	End	3025
GI	none	Score	.73
Exons	379..834, 1020..1637, 1966..2281, 2379..3025		

  

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61120	Strand	-
Start	379	End	3025
Name	OJ000210_03.0301.C11.o2.gp	Method	AAT/GAP
Start	766	End	1236
GI	uC-osflcyp179f07b1	Score	911
Exons	766..1236		
GI Descrip.	'5852181/emb CAB55419.1  4.0e-20 (AL117265) zhb0011.1 [Oryza sativa]'		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61121	Strand	-
Start	3056	End	3424
Name	OJ000210_03.0301.C11.o3.gp	Method	AAT/GAP
Start	3056	End	3424
GI	none	Score	564
Exons	3056..3424		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o5.tm	Method	TBLASTX:Maize
Start	625	End	870
GI	none	Score	130
Exons	625..870, 659..835, 708..866		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o7.tm	Method	TBLASTX:Maize
Start	1072	End	1309
GI	none	Score	45
Exons	1072..1113, 1073..1123, 1101..1304, 1106..1309, 1107..1262, 1253..1306		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o4.tm	Method	TBLASTX:Maize
Start	7125	End	8967
GI	none	Score	241
Exons	7125..7295, 7136..7306, 7143..7295, 8505..8714, 8527..8715, 8528..8722, 8532..8720, 8533..8724, 8857..8967, 8860..8952, 8864..8965		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o7.tw	Method	TBLASTX:Wheat
Start	7126	End	8700
GI	none	Score	218
Exons	7126..7296, 7139..7306, 7143..7295, 8532..8699, 8533..8700		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o1.tc	Method	TBLASTX:Cress
Start	7134	End	8953
GI	none	Score	157
Exons	7134..7289, 7139..7318, 7143..7292, 8532..8618, 8533..8619, 8582..8716, 8619..8717, 8620..8724, 8622..8720, 8860..8952, 8861..8953		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o1.ts	Method	TBLASTX:Soybean
Start	7139	End	8953
GI	none	Score	220
Exons	7139..7306, 7140..7295, 7147..7305, 8505..8717, 8513..8716, 8532..8720, 8533..8724, 8860..8952, 8861..8953		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o6.tw	Method	TBLASTX:Wheat
Start	14225	End	14617
GI	none	Score	58
Exons	14225..14272, 14279..14377, 14284..14376, 14344..14583, 14360..14617		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o6.tm	Method	TBLASTX:Maize
Start	14230	End	14515
GI	none	Score	192
Exons	14230..14514, 14267..14515		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o3.tw	Method	TBLASTX:Wheat
Start	15355	End	15814
GI	none	Score	408
Exons	15355..15528, 15356..15814, 15356..15784, 15550..15810		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o1.tw	Method	TBLASTX:Wheat
Start	16005	End	16468
GI	none	Score	216
Exons	16005..16466, 16006..16467, 16007..16468, 16007..16468		

Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o4.ts	Method	TBLASTX:Soybean
Start	16046	End	16411

GI	none	Score	117
Exons	16046..16270, 16277..16411		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o1.tm	Method	TBLASTX:Maize
Start	16136	End	16492
GI	none	Score	392
Exons	16136..16492, 16171..16491, 16376..16492		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o2.tm	Method	TBLASTX:Maize
Start	16519	End	16903
GI	none	Score	363
Exons	16519..16884, 16520..16903		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o2.tw	Method	TBLASTX:Wheat
Start	16576	End	17001
GI	none	Score	489
Exons	16576..17001, 16577..16996		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o2.np	Method	AAT/NAP
Start	16631	End	20825
GI	6907089	Score	907
Exons	16631..16659, 19165..19186, 20270..20825		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o2.ts	Method	TBLASTX:Soybean
Start	16655	End	17026
GI	none	Score	278
Exons	16655..17026, 16672..16815		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o5.tw	Method	TBLASTX:Wheat
Start	17651	End	18085
GI	none	Score	235
Exons	17651..17902, 17708..17758, 17716..17892, 17778..17909, 17936..18085, 17945..18082, 17947..18084		
Seq. No.	29606	Seq. ID	OJ000210_03.0301.C11
Gene No.	61122	Strand	-
Start	16631	End	21984
Name	OJ000210_03.0301.C11.o3.ts	Method	TBLASTX:Soybean

Start 17774 End 18340  
 GI 5666795 Score 68  
 Exons 17774..17872, 17948..18085, 18140..18340  
 GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o9.tw Method TBLASTX:Wheat  
 Start 18088 End 18542  
 GI none Score 189  
 Exons 18088..18264, 18140..18400, 18489..18542

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o3.tm Method TBLASTX:Maize  
 Start 18593 End 18916  
 GI none Score 361  
 Exons 18593..18916, 18622..18903

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o4.tw Method TBLASTX:Wheat  
 Start 18730 End 19111  
 GI none Score 371  
 Exons 18730..18786, 18731..19111, 18734..19072, 18832..19080

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o8.tw Method TBLASTX:Wheat  
 Start 19112 End 19714  
 GI none Score 265  
 Exons 19112..19396, 19117..19395, 19588..19710, 19589..19714

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o4.np Method AAT/NAP  
 Start 20221 End 21984  
 GI 5922623 Score 116  
 Exons 20221..20239, 21648..21723, 21890..21984  
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
 gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein  
 [Oryza sativa]

Seq. No. 29606 Seq. ID OJ000210\_03.0301.C11  
 Gene No. 61122 Strand -  
 Start 16631 End 21984  
 Name OJ000210\_03.0301.C11.o5.gs Method GENSCAN  
 Start 20271 End 20825  
 GI none Score .67  
 Exons 20271..20825

Seq. No. 29607 Seq. ID OJ000210\_03.0301.C12

Gene No.	61123	Strand	+
Start	1	End	90
Name	OJ000210_03.0301.C12.o1.np	Method	AAT/NAP
Start	1	End	90
GI	5042454	Score	84
Exons	1..90		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
Gene No.	61124	Strand	+
Start	145	End	9475
Name	OJ000210_03.0301.C12.o1.gs	Method	GENSCAN
Start	145	End	9475
GI	none	Score	.59
Exons	145..211, 236..365, 1795..1965, 3623..3671, 4567..4753, 4782..4939, 6492..6512, 6651..6848, 7029..7301, 7341..7466, 7565..9390, 9446..9475		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
Gene No.	61125	Strand	+
Start	9527	End	10122
Name	OJ000210_03.0301.C12.o5.np	Method	AAT/NAP
Start	9527	End	10122
GI	4581149	Score	141
Exons	9527..9718, 10070..10122		
GI Descrip.	(AC006919) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
Gene No.	61126	Strand	-
Start	1	End	244
Name	OJ000210_03.0301.C12.o2.np	Method	AAT/NAP
Start	1	End	244
GI	5922623	Score	88
Exons	1..244		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
Gene No.	61127	Strand	-
Start	507	End	2601
Name	OJ000210_03.0301.C12.o3.np	Method	AAT/NAP
Start	507	End	2601
GI	6721512	Score	51
Exons	507..662, 2533..2601		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
Gene No.	61128	Strand	-
Start	5251	End	5497
Name	OJ000210_03.0301.C12.o4.np	Method	AAT/NAP
Start	5251	End	5497
GI	4584355	Score	219
Exons	5251..5497		
GI Descrip.	(AC006420) Ac-like transposase [Arabidopsis thaliana]		

Seq. No.	29607	Seq. ID	OJ000210_03.0301.C12
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Gene No.	61129	Strand	
Start	9346	End	9611
Name	OJ000210_03.0301.C12.o1.tm	Method	TBLASTX:Maize
Start	9346	End	9611
GI	none	Score	282
Exons	9346..9609, 9346..9603, 9348..9611		
Seq. No.	29608	Seq. ID	OJ000210_03.0301.C13
Gene No.	61130	Strand	
Start	2	End	468
Name	OJ000210_03.0301.C13.o1.tm	Method	TBLASTX:Maize
Start	2	End	468
GI	none	Score	47
Exons	2..37, 3..23, 19..147, 28..81, 160..231, 168..230, 170..232, 173..232, 231..455, 232..456, 235..468		
Seq. No.	29609	Seq. ID	OJ000210_03.0301.C14
Gene No.	61131	Strand	+
Start	145	End	335
Name	OJ000210_03.0301.C14.o1.gp	Method	AAT/GAP
Start	145	End	335
GI	2797716	Score	251
Exons	145..335		
Seq. No.	29609	Seq. ID	OJ000210_03.0301.C14
Gene No.	61132	Strand	
Start	751	End	1002
Name	OJ000210_03.0301.C14.o1.tm	Method	TBLASTX:Maize
Start	751	End	1002
GI	none	Score	200
Exons	751..933, 774..947, 776..937, 955..1002, 960..1001		
Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61133	Strand	+
Start	9249	End	13523
Name	OJ000210_03.0301.C15.o2.gs	Method	GENSCAN
Start	9249	End	13520
GI	none	Score	.91
Exons	9249..9422, 9486..9671, 10039..10151, 10251..10434, 10620..10717, 12117..12582, 12785..12843, 12924..13230, 13293..13520		
Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61133	Strand	+
Start	9249	End	13523
Name	OJ000210_03.0301.C15.o1.np	Method	AAT/NAP
Start	9258	End	13523
GI	1531758	Score	1904
Exons	9258..9422, 9486..9671, 10039..10151, 10251..10434, 10620..10717, 12117..12582, 13293..13523		
GI Descrip.	(X98772) AUX1 [Arabidopsis thaliana] gi 3335360 gb AAC27161.1  (AC003028) unknown protein [Arabidopsis thaliana]		
Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61133	Strand	+
Start	9249	End	13523
Name	OJ000210_03.0301.C15.o1.gp	Method	AAT/GAP



Start 9259 End 9621  
 GI uC-osflcyp073b02b1 Score 545  
 Exons 9259..9422, 9486..9621  
 GI Descrip. '1531758/emb|CAA67308| 6.0e-30 (X98772) AUX1 [Arabidopsis thaliana] >gi\_3335360 (AC003028) unknown protein [Arabidopsis thaliana]'

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61133 Strand +  
 Start 9249 End 13523  
 Name OJ000210\_03.0301.C15.o2.gp Method AAT/GAP  
 Start 10284 End 10666  
 GI 2427601 Score 356  
 Exons 10284..10434, 10620..10666  
 GI Descrip. 1531758/emb|CAA67308| 6.0e-30 (X98772) AUX1 [Arabidopsis thaliana] >gi\_3335360 (AC003028) unknown protein [Arabidopsis thaliana]

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61134 Strand -  
 Start 1427 End 6291  
 Name OJ000210\_03.0301.C15.o1.gs Method GENSCAN  
 Start 1427 End 6291  
 GI none Score .43  
 Exons 1427..1902, 5154..5184, 5449..5501, 5569..5778, 6066..6291

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61135 Strand -  
 Start 13386 End 13847  
 Name OJ000210\_03.0301.C15.o1.ts Method TBLASTX:Soybean  
 Start 9267 End 10691  
 GI none Score 127  
 Exons 9267..9425, 9353..9424, 9483..9671, 9483..9626, 9485..9667, 10036..10149, 10036..10149, 10038..10163, 10225..10437, 10250..10324, 10282..10383, 10287..10436, 10641..10691

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61135 Strand -  
 Start 13386 End 13847  
 Name OJ000210\_03.0301.C15.o3.tc Method TBLASTX:Cress  
 Start 9303 End 9674  
 GI none Score 112  
 Exons 9303..9425, 9362..9424, 9483..9674, 9485..9673

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61135 Strand -  
 Start 13386 End 13847  
 Name OJ000210\_03.0301.C15.o3.tm Method TBLASTX:Maize  
 Start 9344 End 9586  
 GI none Score 144  
 Exons 9344..9424, 9345..9425, 9345..9425, 9483..9584, 9483..9584, 9485..9586

Seq. No. 29610 Seq. ID OJ000210\_03.0301.C15  
 Gene No. 61135 Strand -  
 Start 13386 End 13847  
 Name OJ000210\_03.0301.C15.o1.tm Method TBLASTX:Maize

Start	10035	End	12267
GI	none	Score	129
Exons	10035..10145, 10035..10151, 10036..10149, 10225..10434, 10253..10327, 10282..10383, 10287..10433, 10592..10717, 10617..10718, 12108..12167, 12117..12266, 12118..12267		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o2.tc	Method	TBLASTX:Cress
Start	10080	End	10374
GI	none	Score	116
Exons	10080..10151, 10081..10149, 10225..10374, 10256..10321, 10287..10373		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o4.tc	Method	TBLASTX:Cress
Start	10625	End	12246
GI	none	Score	144
Exons	10625..10717, 10626..10718, 12117..12245, 12118..12246		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o3.ts	Method	TBLASTX:Soybean
Start	12117	End	12255
GI	none	Score	62
Exons	12117..12164, 12117..12254, 12118..12255		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o1.tc	Method	TBLASTX:Cress
Start	12247	End	12489
GI	none	Score	348
Exons	12247..12489, 12288..12485		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o2.ts	Method	TBLASTX:Soybean
Start	12258	End	13475
GI	none	Score	470
Exons	12258..12578, 12259..12579, 13286..13468, 13287..13343, 13392..13475, 13407..13475		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o2.tm	Method	TBLASTX:Maize
Start	12319	End	13472
GI	none	Score	408
Exons	12319..12582, 12319..12390, 12321..12575, 13287..13343, 13292..13333, 13394..13468, 13406..13471, 13407..13472		

Seq. No.	29610	Seq. ID	OJ000210_03.0301.C15
Gene No.	61135	Strand	-
Start	13386	End	13847
Name	OJ000210_03.0301.C15.o3.gp	Method	AAT/GAP
Start	13386	End	13847
GI	none	Score	611
Exons	13386..13847		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61136	Strand	+
Start	2573	End	3001
Name	OJ000210_03.0301.C16.o1.np	Method	AAT/NAP
Start	2573	End	3001
GI	5926716	Score	480
Exons	2573..3001		
GI Descrip.	(AB005903) AtPH1 [Arabidopsis thaliana]		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61137	Strand	+
Start	6239	End	8598
Name	OJ000210_03.0301.C16.o2.np	Method	AAT/NAP
Start	5463	End	8598
GI	6759449	Score	226
Exons	5463..5575, 6678..6865, 6941..7112, 7236..7321, 8566..8598		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61137	Strand	+
Start	6239	End	8598
Name	OJ000210_03.0301.C16.o2.gs	Method	GENSCAN
Start	6239	End	8203
GI	none	Score	.93
Exons	6239..6457, 6532..6595, 6705..6865, 6941..7354, 7940..8203		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o1.tm	Method	TBLASTX:Maize
Start	2524	End	3074
GI	none	Score	51
Exons	2524..2568, 2525..2569, 2632..2991, 2633..3013, 3008..3070, 3033..3074		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o1.tw	Method	TBLASTX:Wheat
Start	2536	End	2788
GI	none	Score	46
Exons	2536..2568, 2540..2569, 2632..2784, 2633..2788		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o1.ts	Method	TBLASTX:Soybean
Start	2632	End	3022
GI	none	Score	561

Exons 2632..2991, 2633..3022

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o1.tc	Method	TBLASTX:Cress
Start	2633	End	2998
GI	none	Score	193
Exons	2633..2758, 2635..2751, 2731..2991, 2753..2998		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o2.tm	Method	TBLASTX:Maize
Start	6709	End	7127
GI	none	Score	157
Exons	6709..6864, 6710..6865, 6713..6865, 6920..7051, 6940..7074, 7047..7127, 7049..7123		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o3.gs	Method	GENSCAN
Start	12120	End	12923
GI	none	Score	.94
Exons	12120..12267, 12790..12923		

Seq. No.	29611	Seq. ID	OJ000210_03.0301.C16
Gene No.	61138	Strand	+
Start	12120	End	14013
Name	OJ000210_03.0301.C16.o3.np	Method	AAT/NAP
Start	12135	End	14013
GI	3806098	Score	89
Exons	12135..12267, 13937..14013		
GI Descrip.	(AF079100) arginine-tRNA-protein transferase 1; Atelp [Arabidopsis thaliana]		

Seq. No.	29612	Seq. ID	OJ000210_03.0301.C17
Gene No.	61139	Strand	+
Start	190	End	282
Name	OJ000210_03.0301.C17.o1.gs	Method	GENSCAN
Start	190	End	282
GI	none	Score	.59
Exons	190..282		

Seq. No.	29613	Seq. ID	OJ000210_03.0301.C18
Gene No.	61140	Strand	-
Start	1	End	1385
Name	OJ000210_03.0301.C18.o1.np	Method	AAT/NAP
Start	1	End	1385
GI	6143875	Score	120
Exons	1..173, 251..601, 1354..1385		
GI Descrip.	(AC010927) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29613	Seq. ID	OJ000210_03.0301.C18
Gene No.	61140	Strand	-
Start	1	End	1385

Name OJ000210\_03.0301.C18.o1.tm  
 Start 254  
 GI none  
 Exons 254..382, 257..427, 265..435

Method TBLASTX:Maize  
 End 435  
 Score 106

Seq. No. 29614  
 Gene No. 61141  
 Start 216  
 Name OJ990429\_29.9819.C1.o1.gs  
 Start 216  
 GI none  
 Exons 216..258

Seq. ID OJ990429\_29.9819.C1  
 Strand -  
 End 258  
 Method GENSCAN  
 End 258  
 Score .76

Seq. No. 29615  
 Gene No. 61142  
 Start 232  
 Name OJ990429\_29.9819.C3.o1.gs  
 Start 232  
 GI none  
 Exons 232..1116

Seq. ID OJ990429\_29.9819.C3  
 Strand +  
 End 1116  
 Method GENSCAN  
 End 1116  
 Score .89

Seq. No. 29615  
 Gene No. 61143  
 Start 2435  
 Name OJ990429\_29.9819.C3.o2.gs  
 Start 2435  
 GI none  
 Exons 2435..2451, 2585..2724, 3133..3265, 3494..3557

Seq. ID OJ990429\_29.9819.C3  
 Strand +  
 End 3557  
 Method GENSCAN  
 End 3557  
 Score .64

Seq. No. 29615  
 Gene No. 61144  
 Start 7727  
 Name OJ990429\_29.9819.C3.o3.gs  
 Start 7727  
 GI none  
 Exons 7727..8215

Seq. ID OJ990429\_29.9819.C3  
 Strand +  
 End 8215  
 Method GENSCAN  
 End 8215  
 Score .71

Seq. No. 29615  
 Gene No. 61145  
 Start 10395  
 Name OJ990429\_29.9819.C3.o1.gp  
 Start 10395  
 GI 7406 1.R1084  
 Exons 10395..10546

Seq. ID OJ990429\_29.9819.C3  
 Strand +  
 End 10546  
 Method AAT/GAP  
 End 10546  
 Score 222

GI Descrip. '1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'

Seq. No. 29615  
 Gene No. 61146  
 Start 10996  
 Name OJ990429\_29.9819.C3.o4.gs  
 Start 10996  
 GI none  
 Exons 10996..11551, 11656..11925, 12061..12187, 12766..12928

Seq. ID OJ990429\_29.9819.C3  
 Strand +  
 End 12928  
 Method GENSCAN  
 End 12928  
 Score .64

Seq. No. 29615  
 Gene No. 61146

Seq. ID OJ990429\_29.9819.C3  
 Strand +

Start	10996	End	12928
Name	OJ990429_29.9819.C3.o2.gp	Method	AAT/GAP
Start	12046	End	12499
GI	LIB3431-045-P1-N1-A10	Score	852
Exons	12046..12499		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61147	Strand	+
Start	13242	End	14139
Name	OJ990429_29.9819.C3.o5.gs	Method	GENSCAN
Start	13242	End	14139
GI	none	Score	.69
Exons	13242..13260, 13916..14139		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61148	Strand	+
Start	15270	End	21023
Name	OJ990429_29.9819.C3.o6.gs	Method	GENSCAN
Start	15270	End	20815
GI	none	Score	.8
Exons	15270..15515, 15557..15732, 15908..15977, 16555..16621, 16719..16843, 19119..19223, 19646..19708, 19856..19936, 20139..20237, 20311..20448, 20681..20815		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61148	Strand	+
Start	15270	End	21023
Name	OJ990429_29.9819.C3.o3.gp	Method	AAT/GAP
Start	19903	End	21023
GI	3997 1.R1084	Score	1102
Exons	19903..19936, 20139..20237, 20311..20448, 20681..21023		
GI Descrip.	'2245004/emb CAB10424.1  5.0e-17 (Z97341) membrane transporter like protein [Arabidopsis thaliana]'		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o1.tc	Method	TBLASTX:Cress
Start	247	End	1032
GI	none	Score	36
Exons	247..282, 304..483, 466..684, 670..903, 684..794, 913..1032		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o6.tm	Method	TBLASTX:Maize
Start	307	End	591
GI	none	Score	193
Exons	307..591		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o1.ts	Method	TBLASTX:Soybean
Start	343	End	1038

GI	none	Score	319
Exons	343..678, 363..491, 690..794, 691..903, 898..1038		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o2.tm	Method	TBLASTX:Maize
Start	592	End	978
GI	none	Score	81
Exons	592..678, 631..978, 666..794		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o1.tw	Method	TBLASTX:Wheat
Start	714	End	1032
GI	none	Score	203
Exons	714..794, 715..912, 901..1032		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o5.tm	Method	TBLASTX:Maize
Start	8014	End	8197
GI	none	Score	170
Exons	8014..8148, 8015..8107, 8046..8150, 8084..8197		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o4.tm	Method	TBLASTX:Maize
Start	13210	End	15007
GI	none	Score	219
Exons	13210..13344, 13212..13352, 13215..13352, 13226..13369, 13335..13376, 13411..13461, 14841..15005, 14843..15007, 14845..15006		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o2.ts	Method	TBLASTX:Soybean
Start	18533	End	19232
GI	none	Score	139
Exons	18533..18616, 18534..18623, 18848..19222, 18849..19232		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o2.tc	Method	TBLASTX:Cress
Start	18848	End	19226
GI	none	Score	399
Exons	18848..19222, 18849..19226		
Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o1.tm	Method	TBLASTX:Maize

Start	18867	End	19677
GI	none	Score	433
Exons	18867..19226, 18868..18975, 18869..19222, 19480..19539, 19484..19561, 19489..19539, 19636..19677, 19645..19677		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o3.tc	Method	TBLASTX:Cress
Start	19850	End	20448
GI	none	Score	95
Exons	19850..19939, 20142..20240, 20144..20239, 20302..20448, 20310..20441		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o3.ts	Method	TBLASTX:Soybean
Start	20138	End	20445
GI	5057520	Score	133
Exons	20138..20248, 20139..20249, 20293..20445, 20305..20415, 20307..20441		

GI Descrip. -

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o3.tm	Method	TBLASTX:Maize
Start	20172	End	20773
GI	none	Score	96
Exons	20172..20240, 20177..20239, 20182..20241, 20308..20448, 20310..20450, 20310..20444, 20317..20448, 20675..20773, 20680..20772		

Seq. No.	29615	Seq. ID	OJ990429_29.9819.C3
Gene No.	61149	Strand	-
Start	21101	End	22484
Name	OJ990429_29.9819.C3.o7.gs	Method	GENSCAN
Start	21101	End	22484
GI	none	Score	.52
Exons	21101..21170, 22256..22328, 22361..22484		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61150	Strand	+
Start	4139	End	6244
Name	OJ990429_29.9819.C4.o1.gs	Method	GENSCAN
Start	4139	End	6244
GI	none	Score	1
Exons	4139..6244		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61150	Strand	+
Start	4139	End	6244
Name	OJ990429_29.9819.C4.o1.gp	Method	AAT/GAP
Start	4981	End	5459
GI	uC-osroM202001c02a1	Score	779
Exons	4981..5459		



GI Descrip. '4972051/emb|CAB43919.1| 1.0e-26 (AL078470)  
serine/threonine-specific kinase like protein [Arabidopsis  
thaliana]'

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61151	Strand	-
Start	6106	End	6509
Name	OJ990429_29.9819.C4.o2.gp	Method	AAT/GAP
Start	6106	End	6509
GI	none	Score	792
Exons	6106..6509		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o2.ts	Method	TBLASTX:Soybean
Start	4297	End	4819
GI	none	Score	124
Exons	4297..4491, 4325..4492, 4559..4819		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o1.tc	Method	TBLASTX:Cress
Start	4325	End	6079
GI	none	Score	108
Exons	4325..4567, 4565..4711, 4651..4713, 4723..4962, 4724..4969, 5153..5230, 5180..5239, 5234..5488, 5245..5379, 5509..5739, 5510..5869, 5933..6079, 5992..6078		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o2.tw	Method	TBLASTX:Wheat
Start	4564	End	4935
GI	none	Score	104
Exons	4564..4695, 4565..4711, 4726..4935, 4727..4909		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o3.tm	Method	TBLASTX:Maize
Start	4628	End	4996
GI	none	Score	83
Exons	4628..4705, 4645..4701, 4723..4962, 4724..4996		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o1.tw	Method	TBLASTX:Wheat
Start	5233	End	5665
GI	none	Score	232
Exons	5233..5400, 5234..5506, 5510..5665		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465

Name	OJ990429_29.9819.C4.o1.ts	Method	TBLASTX:Soybean
Start	5234	End	5722
GI	none	Score	339
Exons	5234..5494, 5245..5400, 5455..5493, 5495..5722, 5512..5721		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o1.tm	Method	TBLASTX:Maize
Start	5263	End	5836
GI	none	Score	306
Exons	5263..5400, 5267..5503, 5282..5437, 5479..5529, 5510..5836, 5534..5641, 5545..5739, 5777..5836		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o3.ts	Method	TBLASTX:Soybean
Start	5738	End	6052
GI	none	Score	135
Exons	5738..5929, 5777..5884, 5930..6052		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o2.gs	Method	GENSCAN
Start	7062	End	9465
GI	none	Score	.72
Exons	7062..7120, 7206..7402, 7492..7696, 7923..9465		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o2.tc	Method	TBLASTX:Cress
Start	7491	End	9174
GI	none	Score	80
Exons	7491..7694, 7491..7694, 7492..7698, 8110..8202, 8227..8364, 8437..8763, 8821..9174, 8843..8962, 9023..9145		

Seq. No.	29616	Seq. ID	OJ990429_29.9819.C4
Gene No.	61152	Strand	-
Start	7062	End	9465
Name	OJ990429_29.9819.C4.o2.tm	Method	TBLASTX:Maize
Start	7933	End	8199
GI	none	Score	275
Exons	7933..8199, 7934..8194, 7945..8199		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61153	Strand	+
Start	10073	End	10348
Name	OJ990429_29.9819.C5.o4.gs	Method	GENSCAN
Start	10073	End	10348
GI	none	Score	.86
Exons	10073..10348		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61154	Strand	+

Start	13493	End	15966
Name	OJ990429_29.9819.C5.o4.gp	Method	AAT/GAP
Start	13424	End	15966
GI	29574_1.R1084	Score	1924
Exons	13424..13553, 14187..14458, 14546..14582, 14665..14762, 15074..15135, 15345..15468, 15655..15966		
GI Descrip.	'3236248 1.0e-116 (AC004684) unknown protein [Arabidopsis thaliana]'		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61154	Strand	+
Start	13493	End	15966
Name	OJ990429_29.9819.C5.o6.gs	Method	GENSCAN
Start	13493	End	15774
GI	none	Score	.83
Exons	13493..13553, 14187..14411, 14665..14762, 15074..15135, 15345..15468, 15655..15774		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61155	Strand	+
Start	31416	End	33887
Name	OJ990429_29.9819.C5.o5.gp	Method	AAT/GAP
Start	31386	End	31747
GI	82060_1.R1084	Score	642
Exons	31386..31747		
GI Descrip.	'5419927/emb CAB46492.1  2.0e-36 (AJ243340) expansin9 [Lycopersicon esculentum]'		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61155	Strand	+
Start	31416	End	33887
Name	OJ990429_29.9819.C5.o9.gs	Method	GENSCAN
Start	31416	End	33576
GI	none	Score	.83
Exons	31416..31900, 33267..33576		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61155	Strand	+
Start	31416	End	33887
Name	OJ990429_29.9819.C5.o6.gp	Method	AAT/GAP
Start	33388	End	33887
GI	3762780	Score	923
Exons	33388..33887		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61156	Strand	+
Start	34529	End	34873
Name	OJ990429_29.9819.C5.o7.gp	Method	AAT/GAP
Start	34529	End	34873
GI	3763004	Score	640
Exons	34529..34873		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61157	Strand	+
Start	41295	End	43997
Name	OJ990429_29.9819.C5.o11.gs	Method	GENSCAN
Start	41295	End	43980

GI none Score .86  
Exons 41295..41381, 41466..41536, 41648..41705, 41835..41941,  
42076..42121, 42810..42944, 43271..43399, 43505..43588,  
43689..43753, 43833..43980

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61157 Strand +  
Start 41295 End 43997  
Name OJ990429\_29.9819.C5.o9.gp Method AAT/GAP  
Start 43240 End 43997  
GI 2280586 Score 792  
Exons 43240..43399, 43505..43588, 43689..43753, 43833..43997  
GI Descrip. 3355490 4.0e-44 (AC004218) putative dolichyl-phosphate  
beta-glucosyltransferase [Arabidopsis thaliana]

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61158 Strand -  
Start 50 End 358  
Name OJ990429\_29.9819.C5.o1.gs Method GENSCAN  
Start 50 End 358  
GI none Score .98  
Exons 50..358

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61159 Strand -  
Start 1605 End 2929  
Name OJ990429\_29.9819.C5.o2.gs Method GENSCAN  
Start 1605 End 2789  
GI none Score .92  
Exons 1605..1814, 1971..2065, 2325..2496, 2578..2698, 2725..2789

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61159 Strand -  
Start 1605 End 2929  
Name OJ990429\_29.9819.C5.o1.gp Method AAT/GAP  
Start 2438 End 2929  
GI LIB3474-011-P1-K1-D8 Score 778  
Exons 2438..2496, 2578..2929  
GI Descrip. '3603461 8.0e-11 (AF088982) heat shock protein hsp40-3 [Homo  
sapiens]'

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61160 Strand -  
Start 3177 End 9223  
Name OJ990429\_29.9819.C5.o2.gp Method AAT/GAP  
Start 3177 End 6056  
GI 2111\_1.R1084 Score 2686  
Exons 3177..3904, 4227..4329, 4434..4655, 4745..4795, 5318..5460,  
5887..6056  
GI Descrip. '3928869 5.0e-19 (AF093420) Hsp70 binding protein HspBP1 [Homo  
sapiens]'

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
Gene No. 61160 Strand -  
Start 3177 End 9223  
Name OJ990429\_29.9819.C5.o3.gs Method GENSCAN  
Start 3376 End 9223

GI	none	Score	.52
Exons	3376..3904, 4227..4329, 4434..4655, 4745..4795, 5318..5460, 5887..6101, 6706..6787, 7055..7168, 7488..8117, 8970..9223		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61161	Strand	-
Start	11424	End	13193
Name	OJ990429_29.9819.C5.o5.gs	Method	GENSCAN
Start	11424	End	13193
GI	none	Score	.66
Exons	11424..11714, 12611..12717, 12779..12866, 12936..13022, 13113..13193		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61162	Strand	-
Start	18031	End	19707
Name	OJ990429_29.9819.C5.o7.gs	Method	GENSCAN
Start	18031	End	19707
GI	none	Score	.81
Exons	18031..19707		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o4.ts	Method	TBLASTX:Soybean
Start	3427	End	5960
GI	none	Score	58
Exons	3427..3519, 3526..3906, 3528..3626, 3529..3711, 3656..3907, 4226..4336, 4435..4656, 4436..4657, 4746..4796, 4750..4797, 5310..5462, 5314..5466, 5314..5463, 5907..5960		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o7.tm	Method	TBLASTX:Maize
Start	4447	End	5964
GI	none	Score	303
Exons	4447..4656, 4448..4657, 4730..4798, 4745..4801, 5310..5462, 5314..5472, 5324..5467, 5887..5964, 5887..5952, 5888..5956, 5907..5963		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o8.tm	Method	TBLASTX:Maize
Start	10147	End	10284
GI	none	Score	69
Exons	10147..10284		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o9.ts	Method	TBLASTX:Soybean
Start	12644	End	13191
GI	none	Score	51
Exons	12644..12724, 12651..12746, 12843..12866, 12844..12873, 12918..12989, 12934..13014, 13110..13181, 13111..13191		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o2.tm	Method	TBLASTX:Maize
Start	13493	End	15782
GI	none	Score	93
Exons	13493..13555, 14183..14461, 14185..14466, 14186..14461, 14443..14466, 14543..14596, 14544..14564, 14546..14587, 14663..14791, 14664..14759, 14669..14764, 15069..15128, 15073..15135, 15074..15136, 15077..15136, 15325..15468, 15342..15464, 15650..15775, 15651..15782, 15655..15777		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o3.tc	Method	TBLASTX:Cress
Start	13496	End	15783
GI	none	Score	65
Exons	13496..13555, 14174..14461, 14183..14461, 14331..14474, 14543..14596, 14546..14590, 14663..14764, 14664..14759, 15073..15135, 15074..15136, 15342..15473, 15343..15468, 15361..15480, 15654..15767, 15655..15783		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o3.ts	Method	TBLASTX:Soybean
Start	14168	End	15816
GI	none	Score	359
Exons	14168..14461, 14183..14461, 14325..14465, 14545..14586, 14546..14587, 14663..14764, 14664..14759, 14665..14775, 14666..14764, 15074..15136, 15325..15468, 15342..15479, 15344..15472, 15655..15816, 15666..15815		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o8.ts	Method	TBLASTX:Soybean
Start	17746	End	17991
GI	none	Score	92
Exons	17746..17991, 17831..17956		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o4.tm	Method	TBLASTX:Maize
Start	17752	End	25651
GI	none	Score	70
Exons	17752..17913, 17842..17964, 17867..17962, 18145..18363, 18145..18825, 18230..18631, 18656..18847, 18901..19098, 25574..25651		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o2.tw	Method	TBLASTX:Wheat

Start	17842	End	18252
GI	none	Score	112
Exons	17842..17967, 17843..17962, 17848..17967, 17976..18074, 17989..18081, 18145..18252		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o5.ts	Method	TBLASTX:Soybean
Start	18163	End	18825
GI	none	Score	97
Exons	18163..18411, 18187..18825, 18662..18787		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o3.tw	Method	TBLASTX:Wheat
Start	18253	End	18544
GI	none	Score	88
Exons	18253..18543, 18257..18544		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o6.tc	Method	TBLASTX:Cress
Start	18301	End	18738
GI	none	Score	59
Exons	18301..18738, 18302..18412, 18512..18736		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o5.tc	Method	TBLASTX:Cress
Start	18877	End	19254
GI	none	Score	70
Exons	18877..19254, 18905..19114		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o6.ts	Method	TBLASTX:Soybean
Start	18907	End	19317
GI	none	Score	68
Exons	18907..19317, 19010..19108		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o1.tm	Method	TBLASTX:Maize
Start	31421	End	33577
GI	none	Score	46
Exons	31421..31516, 31482..31517, 31508..31900, 31509..31901, 33262..33399, 33267..33335, 33289..33399, 33367..33423, 33398..33442, 33399..33575, 33399..33575, 33400..33576, 33533..33577		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
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Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o1.ts	Method	TBLASTX:Soybean
Start	31490	End	33578
GI	none	Score	356
Exons	31490..31699, 31491..31712, 31713..31901, 31715..31888, 33261..33578, 33289..33576, 33399..33578		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o1.tc	Method	TBLASTX:Cress
Start	31491	End	33576
GI	none	Score	353
Exons	31491..31712, 31493..31711, 31713..31901, 31715..31900, 33267..33575, 33289..33576		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o10.gs	Method	GENSCAN
Start	35017	End	39119
GI	none	Score	.63
Exons	35017..35498, 36057..36180, 36267..36409, 36524..36659, 36823..36967, 38310..38390, 38620..38660, 39048..39119		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o2.ts	Method	TBLASTX:Soybean
Start	35200	End	37087
GI	none	Score	212
Exons	35200..35508, 35204..35500, 35219..35512, 35265..35516, 36049..36177, 36050..36172, 36093..36182, 36246..36401, 36252..36407, 36271..36408, 36522..36656, 36523..36660, 36525..36659, 36814..37074, 36823..37074, 36824..37087		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o6.tm	Method	TBLASTX:Maize
Start	35200	End	35516
GI	none	Score	212
Exons	35200..35508, 35204..35500, 35219..35512, 35265..35516		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
Gene No.	61163	Strand	-
Start	35017	End	39492
Name	OJ990429_29.9819.C5.o2.tc	Method	TBLASTX:Cress
Start	35201	End	37086
GI	none	Score	152
Exons	35201..35440, 35203..35508, 35255..35512, 35379..35501, 36049..36180, 36056..36172, 36252..36407, 36271..36393, 36523..36660, 36525..36659, 36812..37081, 36814..37059, 36916..37086		

Seq. No.	29617	Seq. ID	OJ990429_29.9819.C5
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Gene No. 61163 Strand -  
 Start 35017 End 39492  
 Name OJ990429\_29.9819.C5.o1.tw Method TBLASTX:Wheat  
 Start 35335 End 36389  
 GI none Score 107  
 Exons 35335..35508, 35354..35500, 35400..35516, 36049..36180,  
 36056..36181, 36252..36389

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
 Gene No. 61163 Strand -  
 Start 35017 End 39492  
 Name OJ990429\_29.9819.C5.o3.tm Method TBLASTX:Maize  
 Start 36081 End 36979  
 GI none Score 132  
 Exons 36081..36179, 36082..36180, 36083..36181, 36252..36407,  
 36265..36408, 36266..36409, 36266..36421, 36522..36656,  
 36523..36663, 36524..36658, 36525..36659, 36821..36967,  
 36822..36968, 36824..36979, 36826..36978

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
 Gene No. 61163 Strand -  
 Start 35017 End 39492  
 Name OJ990429\_29.9819.C5.o8.gp Method AAT/GAP  
 Start 37001 End 39492  
 GI 25528\_1.R1084 Score 1032  
 Exons 37001..37148, 39093..39492  
 GI Descrip. '3355490 4.0e-44 (AC004218) putative dolichyl-phosphate  
 beta-glucosyltransferase [Arabidopsis thaliana]'

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
 Gene No. 61164 Strand -  
 Start 41466 End 44013  
 Name OJ990429\_29.9819.C5.o5.tm Method TBLASTX:Maize  
 Start 41466 End 43881  
 GI none Score 57  
 Exons 41466..41537, 41505..41537, 41582..41707, 41629..41712,  
 41649..41708, 41834..41941, 41835..41939, 42770..42949,  
 42807..42944, 42823..42945, 43067..43174, 43081..43176,  
 43084..43176, 43268..43399, 43269..43388, 43328..43399,  
 43504..43596, 43505..43591, 43505..43621, 43667..43756,  
 43686..43754, 43688..43762, 43689..43757, 43822..43881,  
 43830..43880

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
 Gene No. 61164 Strand -  
 Start 41466 End 44013  
 Name OJ990429\_29.9819.C5.o4.tc Method TBLASTX:Cress  
 Start 43331 End 44013  
 GI none Score 77  
 Exons 43331..43399, 43358..43399, 43501..43587, 43502..43612,  
 43504..43596, 43679..43762, 43689..43757, 43823..43936,  
 43829..43945, 43830..43985, 43831..44013

Seq. No. 29617 Seq. ID OJ990429\_29.9819.C5  
 Gene No. 61164 Strand -  
 Start 41466 End 44013  
 Name OJ990429\_29.9819.C5.o7.ts Method TBLASTX:Soybean

Start	43679	End	43989
GI	none	Score	110
Exons	43679..43762, 43689..43757, 43821..43985, 43822..43989		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61165	Strand	+
Start	4063	End	5873
Name	OJ990429_29.9819.C7.o1.gs	Method	GENSCAN
Start	4063	End	5873
GI	none	Score	.5
Exons	4063..4182, 5613..5873		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567
Name	OJ990429_29.9819.C7.o3.ts	Method	TBLASTX:Soybean
Start	7807	End	8466
GI	none	Score	123
Exons	7807..7896, 7821..7907, 7978..8169, 8033..8245, 8401..8466		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567
Name	OJ990429_29.9819.C7.o1.tc	Method	TBLASTX:Cress
Start	7810	End	9552
GI	none	Score	96
Exons	7810..7896, 8036..8242, 8394..8411, 8413..8625, 8418..8624, 8695..8823, 9148..9183, 9205..9384, 9367..9552		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567
Name	OJ990429_29.9819.C7.o1.tw	Method	TBLASTX:Wheat
Start	8099	End	8496
GI	none	Score	183
Exons	8099..8245, 8110..8259, 8332..8385, 8373..8465, 8401..8496, 8404..8472, 8406..8480		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567
Name	OJ990429_29.9819.C7.o1.tm	Method	TBLASTX:Maize
Start	8404	End	9387
GI	none	Score	191
Exons	8404..8625, 8406..8624, 8695..8808, 8709..8789, 9208..9387		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567
Name	OJ990429_29.9819.C7.o1.ts	Method	TBLASTX:Soybean
Start	8470	End	8811
GI	none	Score	323
Exons	8470..8811, 8523..8756		

Seq. No.	29618	Seq. ID	OJ990429_29.9819.C7
Gene No.	61166	Strand	
Start	7807	End	9567

Name	OJ990429_29.9819.C7.o2.ts	Method	TBLASTX:Soybean
Start	9244	End	9567
GI	none	Score	277
Exons	9244..9567, 9264..9392		
Seq. No.	29619	Seq. ID	OJ990429_26.9819.C1
Gene No.	61167	Strand	+
Start	252	End	1901
Name	OJ990429_26.9819.C1.o1.gs	Method	GENSCAN
Start	252	End	1901
GI	none	Score	.81
Exons	252..425, 468..557, 1126..1409, 1778..1901		
Seq. No.	29619	Seq. ID	OJ990429_26.9819.C1
Gene No.	61167	Strand	+
Start	252	End	1901
Name	OJ990429_26.9819.C1.o1.np	Method	AAT/NAP
Start	264	End	635
GI	2226329	Score	278
Exons	264..635		
GI Descrip.	(AF001634) physical impedance induced protein [Zea mays]		
Seq. No.	29620	Seq. ID	OJ990429_26.9819.C2
Gene No.	61168	Strand	-
Start	1	End	905
Name	OJ990429_26.9819.C2.o1.np	Method	AAT/NAP
Start	1	End	661
GI	2498930	Score	737
Exons	1..434, 602..661		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	29620	Seq. ID	OJ990429_26.9819.C2
Gene No.	61168	Strand	-
Start	1	End	905
Name	OJ990429_26.9819.C2.o1.gs	Method	GENSCAN
Start	40	End	905
GI	none	Score	.95
Exons	40..434, 602..661, 784..905		
Seq. No.	29621	Seq. ID	OJ990429_26.9819.C4
Gene No.	61169	Strand	-
Start	40	End	642
Name	OJ990429_26.9819.C4.o1.gs	Method	GENSCAN
Start	40	End	642
GI	none	Score	.55
Exons	40..642		
Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61170	Strand	+
Start	1	End	7261
Name	OJ990429_26.9819.C5.o1.np	Method	AAT/NAP
Start	1	End	7261
GI	4584539	Score	298
Exons	1..42, 4010..5132, 7203..7261		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61170	Strand	+
Start	1	End	7261
Name	OJ990429_26.9819.C5.o1.gp	Method	AAT/GAP
Start	298	End	405
GI	uC-osflcyp088b12b1	Score	128
Exons	298..405		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61170	Strand	+
Start	1	End	7261
Name	OJ990429_26.9819.C5.o1.gs	Method	GENSCAN
Start	721	End	5574
GI	none	Score	.83
Exons	721..836, 1092..1169, 1379..1478, 1931..2073, 4634..4875, 5029..5169, 5454..5574		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61171	Strand	+
Start	8638	End	11056
Name	OJ990429_26.9819.C5.o3.gs	Method	GENSCAN
Start	8638	End	11056
GI	none	Score	.56
Exons	8638..8704, 11004..11056		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61172	Strand	+
Start	17175	End	18216
Name	OJ990429_26.9819.C5.o6.gs	Method	GENSCAN
Start	17175	End	18216
GI	none	Score	.59
Exons	17175..17216, 17295..17348, 17675..17834, 18104..18216		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o2.np	Method	AAT/NAP
Start	20993	End	23907
GI	6665543	Score	856
Exons	20993..21050, 22254..23314, 23451..23543, 23766..23907		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o7.gs	Method	GENSCAN
Start	21588	End	24284
GI	none	Score	.69
Exons	21588..21629, 22518..22735, 22982..23068, 23766..24284		

Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o1.tm	Method	TBLASTX:Maize
Start	22245	End	23219

GI	none	Score	62
Exons	22245..22802, 22272..22460, 22503..22784, 22570..22788, 22830..23219, 22852..23043, 23086..23208		
Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o1.tc	Method	TBLASTX:Cress
Start	22249	End	24258
GI	none	Score	73
Exons	22249..22365, 22254..22829, 22524..22778, 22558..22824, 22830..23219, 22840..22965, 22854..23102, 23767..23829, 23914..23949, 24196..24258		
Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o1.ts	Method	TBLASTX:Soybean
Start	22434	End	23222
GI	none	Score	187
Exons	22434..22829, 22561..22800, 22830..22982, 22840..22983, 22992..23096, 23031..23222		
Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o2.tw	Method	TBLASTX:Wheat
Start	22472	End	22748
GI	none	Score	70
Exons	22472..22600, 22479..22601, 22482..22619, 22570..22620, 22629..22748, 22630..22746		
Seq. No.	29622	Seq. ID	OJ990429_26.9819.C5
Gene No.	61173	Strand	-
Start	21588	End	24284
Name	OJ990429_26.9819.C5.o1.tw	Method	TBLASTX:Wheat
Start	22749	End	23129
GI	none	Score	156
Exons	22749..22805, 22830..23129, 22852..23043, 22887..23129		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61174	Strand	+
Start	1329	End	2995
Name	OJ990429_26.9819.C6.o1.gs	Method	GENSCAN
Start	1329	End	2995
GI	none	Score	.85
Exons	1329..1345, 2469..2604, 2609..2690, 2799..2995		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61175	Strand	+
Start	7479	End	13101
Name	OJ990429_26.9819.C6.o4.gs	Method	GENSCAN
Start	7479	End	9931
GI	none	Score	.69
Exons	7479..7481, 9167..9931		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6

Gene No.	61175	Strand	+
Start	7479	End	13101
Name	OJ990429_26.9819.C6.o1.np	Method	AAT/NAP
Start	9603	End	13079
GI	4680179	Score	3282
Exons	9603..9719, 10280..11248, 11276..13079		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61175	Strand	+
Start	7479	End	13101
Name	OJ990429_26.9819.C6.o5.gs	Method	GENSCAN
Start	10216	End	13101
GI	none	Score	.77
Exons	10216..13101		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61176	Strand	-
Start	3977	End	5563
Name	OJ990429_26.9819.C6.o2.gs	Method	GENSCAN
Start	3977	End	5563
GI	none	Score	1
Exons	3977..5563		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o1.ts	Method	TBLASTX:Soybean
Start	4139	End	5539
GI	none	Score	39
Exons	4139..4264, 4328..4741, 4386..4511, 4626..4736, 4820..4954, 5015..5206, 5309..5539		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o5.tm	Method	TBLASTX:Maize
Start	4334	End	4750
GI	none	Score	117
Exons	4334..4561, 4382..4525, 4601..4750		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o6.tw	Method	TBLASTX:Wheat
Start	4334	End	4655
GI	none	Score	94
Exons	4334..4576, 4380..4511, 4556..4654, 4602..4655		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o1.tc	Method	TBLASTX:Cress
Start	4337	End	4756
GI	none	Score	83
Exons	4337..4558, 4398..4511, 4565..4756, 4632..4736		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o2.tc	Method	TBLASTX:Cress
Start	5192	End	5536
GI	none	Score	257
Exons	5192..5536		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o4.tm	Method	TBLASTX:Maize
Start	5252	End	5536
GI	none	Score	72
Exons	5252..5329, 5309..5536, 5481..5522		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o7.tw	Method	TBLASTX:Wheat
Start	5258	End	6137
GI	none	Score	53
Exons	5258..5536, 6054..6137		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61177	Strand	-
Start	6158	End	6862
Name	OJ990429_26.9819.C6.o3.gs	Method	GENSCAN
Start	6158	End	6862
GI	none	Score	1
Exons	6158..6862		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61178	Strand	-
Start	10402	End	10584
Name	OJ990429_26.9819.C6.o8.tw	Method	TBLASTX:Wheat
Start	10402	End	10584
GI	none	Score	196
Exons	10402..10584, 10404..10583		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61179	Strand	-
Start	10636	End	10980
Name	OJ990429_26.9819.C6.o4.tw	Method	TBLASTX:Wheat
Start	10636	End	10980
GI	none	Score	325
Exons	10636..10980, 10662..10766, 10739..10831		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61179	Strand	-
Start	10636	End	10980
Name	OJ990429_26.9819.C6.o6.tm	Method	TBLASTX:Maize
Start	10636	End	10935
GI	none	Score	238
Exons	10636..10935, 10662..10766, 10854..10934		

Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
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Gene No.	61180	Strand	
Start	11290	End	11688
Name	OJ990429_26.9819.C6.o7.tm	Method	TBLASTX:Maize
Start	11290	End	11603
GI	none	Score	186
Exons	11290..11601, 11334..11426, 11410..11454, 11523..11603		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61180	Strand	
Start	11290	End	11688
Name	OJ990429_26.9819.C6.o5.tw	Method	TBLASTX:Wheat
Start	11335	End	11688
GI	none	Score	244
Exons	11335..11688, 11356..11484, 11511..11645		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61181	Strand	
Start	11692	End	11889
Name	OJ990429_26.9819.C6.o8.tm	Method	TBLASTX:Maize
Start	11692	End	11889
GI	none	Score	184
Exons	11692..11889, 11739..11888		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61182	Strand	
Start	11817	End	12333
Name	OJ990429_26.9819.C6.o2.tw	Method	TBLASTX:Wheat
Start	11817	End	12303
GI	none	Score	532
Exons	11817..12128, 11821..12303, 11890..12261		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61182	Strand	
Start	11817	End	12333
Name	OJ990429_26.9819.C6.o4.ts	Method	TBLASTX:Soybean
Start	11857	End	12171
GI	none	Score	191
Exons	11857..12171		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61182	Strand	
Start	11817	End	12333
Name	OJ990429_26.9819.C6.o2.tm	Method	TBLASTX:Maize
Start	11890	End	12333
GI	none	Score	370
Exons	11890..12333, 11893..12324		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61183	Strand	
Start	12244	End	12720
Name	OJ990429_26.9819.C6.o2.ts	Method	TBLASTX:Soybean
Start	12244	End	12639
GI	none	Score	57
Exons	12244..12276, 12244..12276, 12280..12333, 12280..12360, 12385..12582, 12388..12639, 12399..12629		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6



Gene No.	61183	Strand	
Start	12244	End	12720
Name	OJ990429_26.9819.C6.o3.tw	Method	TBLASTX:Wheat
Start	12379	End	12653
GI	none	Score	354
Exons	12379..12621, 12391..12651, 12399..12653		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61183	Strand	
Start	12244	End	12720
Name	OJ990429_26.9819.C6.o3.tm	Method	TBLASTX:Maize
Start	12388	End	12720
GI	none	Score	316
Exons	12388..12720, 12441..12719		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61184	Strand	
Start	12654	End	13085
Name	OJ990429_26.9819.C6.o1.tw	Method	TBLASTX:Wheat
Start	12654	End	13077
GI	none	Score	594
Exons	12654..13073, 12655..13077, 12703..13074		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61184	Strand	
Start	12654	End	13085
Name	OJ990429_26.9819.C6.o3.ts	Method	TBLASTX:Soybean
Start	12664	End	12909
GI	none	Score	209
Exons	12664..12909		
Seq. No.	29623	Seq. ID	OJ990429_26.9819.C6
Gene No.	61184	Strand	
Start	12654	End	13085
Name	OJ990429_26.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	12727	End	13085
GI	none	Score	469
Exons	12727..13077, 12732..12995, 12733..13065, 13041..13085		
Seq. No.	29624	Seq. ID	OJ990429_26.9819.C7
Gene No.	61185	Strand	+
Start	264	End	361
Name	OJ990429_26.9819.C7.o1.gs	Method	GENSCAN
Start	264	End	361
GI	none	Score	.88
Exons	264..361		
Seq. No.	29625	Seq. ID	OJ990429_26.9819.C9
Gene No.	61186	Strand	+
Start	1	End	2833
Name	OJ990429_26.9819.C9.o1.np	Method	AAT/NAP
Start	1	End	2833
GI	5091513	Score	2025
Exons	1..1800, 1873..2034, 2638..2833		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	29625	Seq. ID	OJ990429_26.9819.C9

Gene No.	61187	Strand	-
Start	4291	End	4602
Name	OJ990429_26.9819.C9.o1.gp	Method	AAT/GAP
Start	4291	End	4396
GI	5816518	Score	154
Exons	4291..4396		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		
Seq. No.	29625	Seq. ID	OJ990429_26.9819.C9
Gene No.	61187	Strand	-
Start	4291	End	4602
Name	OJ990429_26.9819.C9.o2.gp	Method	AAT/GAP
Start	4291	End	4602
GI	72524_1.R1084	Score	419
Exons	4291..4602		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		
Seq. No.	29626	Seq. ID	OJ990429_26.9819.C10
Gene No.	61188	Strand	+
Start	1070	End	1286
Name	OJ990429_26.9819.C10.o1.gp	Method	AAT/GAP
Start	1070	End	1286
GI	uC-osrom202017a05a1	Score	330
Exons	1070..1286		
GI Descrip.	'6041846/gb AAF02155.1 AC009853_15 1.0e-09 (AC009853) unknown protein [Arabidopsis thaliana]'		
Seq. No.	29626	Seq. ID	OJ990429_26.9819.C10
Gene No.	61189	Strand	+
Start	1389	End	6006
Name	OJ990429_26.9819.C10.o1.gs	Method	GENSCAN
Start	1389	End	6006
GI	none	Score	.66
Exons	1389..1454, 1861..2115, 2883..2961, 4086..4256, 5879..6006		
Seq. No.	29626	Seq. ID	OJ990429_26.9819.C10
Gene No.	61189	Strand	+
Start	1389	End	6006
Name	OJ990429_26.9819.C10.o1.np	Method	AAT/NAP
Start	1936	End	4648
GI	6635860	Score	449
Exons	1936..2115, 2791..2961, 3312..3432, 4144..4250, 4551..4648		
GI Descrip.	(AF216313) cytochrome P450 [Helianthus annuus]		
Seq. No.	29626	Seq. ID	OJ990429_26.9819.C10
Gene No.	61190	Strand	-
Start	7501	End	8973
Name	OJ990429_26.9819.C10.o2.gs	Method	GENSCAN
Start	7501	End	8973
GI	none	Score	.41
Exons	7501..7849, 7890..7944, 8805..8973		
Seq. No.	29627	Seq. ID	OJ990429_26.9819.C11
Gene No.	61191	Strand	+
Start	764	End	3219

Name	OJ990429_26.9819.C11.o1.np	Method	AAT/NAP
Start	764	End	3107
GI	6539588	Score	132
Exons	764..790, 1507..1758, 3068..3107		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	29627	Seq. ID	OJ990429_26.9819.C11
Gene No.	61191	Strand	+
Start	764	End	3219
Name	OJ990429_26.9819.C11.o1.gs	Method	GENSCAN
Start	783	End	3219
GI	none	Score	.57
Exons	783..858, 1065..1125, 1691..1758, 2562..2664, 3139..3219		

Seq. No.	29628	Seq. ID	OJ990429_26.9819.C12
Gene No.	61192	Strand	-
Start	453	End	1666
Name	OJ990429_26.9819.C12.o1.np	Method	AAT/NAP
Start	453	End	1666
GI	6815099	Score	66
Exons	453..564, 1640..1666		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29628	Seq. ID	OJ990429_26.9819.C12
Gene No.	61192	Strand	-
Start	453	End	1666
Name	OJ990429_26.9819.C12.o1.gs	Method	GENSCAN
Start	751	End	790
GI	none	Score	.58
Exons	751..790		

Seq. No.	29629	Seq. ID	OJ990429_26.9819.C13
Gene No.	61193	Strand	+
Start	1452	End	1995
Name	OJ990429_26.9819.C13.o1.gs	Method	GENSCAN
Start	1452	End	1995
GI	none	Score	.63
Exons	1452..1472, 1501..1995		

Seq. No.	29629	Seq. ID	OJ990429_26.9819.C13
Gene No.	61194	Strand	+
Start	2845	End	3123
Name	OJ990429_26.9819.C13.o2.gs	Method	GENSCAN
Start	2845	End	3123
GI	none	Score	.57
Exons	2845..3123		

Seq. No.	29629	Seq. ID	OJ990429_26.9819.C13
Gene No.	61195	Strand	+
Start	5688	End	5996
Name	OJ990429_26.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	2983	End	5858
GI	none	Score	80
Exons	2983..3075, 5661..5810, 5663..5857, 5664..5858		

Seq. No.	29629	Seq. ID	OJ990429_26.9819.C13
Gene No.	61195	Strand	+

Start	5688	End	5996
Name	OJ990429_26.9819.C13.o1.tc	Method	TBLASTX:Cress
Start	3010	End	5996
GI	none	Score	73
Exons	3010..3111, 3018..3068, 5645..5989, 5664..5996		

Seq. No.	29629	Seq. ID	OJ990429_26.9819.C13
Gene No.	61195	Strand	+
Start	5688	End	5996
Name	OJ990429_26.9819.C13.o3.gs	Method	GENSCAN
Start	5688	End	5987
GI	none	Score	.54
Exons	5688..5987		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61196	Strand	+
Start	2029	End	7594
Name	OJ990429_26.9819.C14.o3.np	Method	AAT/NAP
Start	2029	End	7591
GI	4680179	Score	2304
Exons	2029..2112, 6009..7591		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61196	Strand	+
Start	2029	End	7594
Name	OJ990429_26.9819.C14.o1.gp	Method	AAT/GAP
Start	2845	End	3160
GI	61605_3.R1084	Score	376
Exons	2845..3160		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61196	Strand	+
Start	2029	End	7594
Name	OJ990429_26.9819.C14.o2.gs	Method	GENSCAN
Start	4821	End	5141
GI	none	Score	.96
Exons	4821..5141		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61196	Strand	+
Start	2029	End	7594
Name	OJ990429_26.9819.C14.o3.gs	Method	GENSCAN
Start	6197	End	7594
GI	none	Score	.87
Exons	6197..7594		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o1.np	Method	AAT/NAP
Start	1	End	3218
GI	4680179	Score	781
Exons	1..136, 1288..2322, 3130..3218		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o1.gs	Method	GENSCAN
Start	106	End	3733
GI	none	Score	.45
Exons	106..208, 575..649, 1410..2342, 3662..3733		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o3.tm	Method	TBLASTX:Maize
Start	1647	End	1943
GI	none	Score	46
Exons	1647..1715, 1647..1943, 1756..1920		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o4.tw	Method	TBLASTX:Wheat
Start	1647	End	1943
GI	none	Score	93
Exons	1647..1943, 1749..1919, 1750..1920		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o5.tw	Method	TBLASTX:Wheat
Start	1991	End	2280
GI	none	Score	57
Exons	1991..2131, 1995..2168, 1995..2177, 1996..2175, 2236..2280		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o2.np	Method	AAT/NAP
Start	3522	End	7601
GI	6063554	Score	427
Exons	3522..3696, 4340..4367, 4860..5082, 5200..5466, 7575..7601		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o2.tw	Method	TBLASTX:Wheat
Start	6071	End	6580
GI	none	Score	586
Exons	6071..6529, 6074..6580, 6082..6579		

Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o1.ts	Method	TBLASTX:Soybean
Start	6368	End	6628

GI	none	Score	298
Exons	6368..6628, 6370..6627		
Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	6426	End	6718
GI	none	Score	61
Exons	6426..6527, 6427..6714, 6428..6718		
Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o1.tw	Method	TBLASTX:Wheat
Start	6587	End	7213
GI	none	Score	736
Exons	6587..7213, 6589..7101, 6962..7207, 7144..7212		
Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	6767	End	7351
GI	none	Score	230
Exons	6767..6928, 6773..6919, 6775..6930, 6775..6921, 6925..7227, 6926..7351		
Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o3.tw	Method	TBLASTX:Wheat
Start	7213	End	7546
GI	none	Score	386
Exons	7213..7287, 7214..7546, 7217..7330, 7306..7353		
Seq. No.	29630	Seq. ID	OJ990429_26.9819.C14
Gene No.	61197	Strand	-
Start	1	End	7601
Name	OJ990429_26.9819.C14.o4.tm	Method	TBLASTX:Maize
Start	7355	End	7601
GI	none	Score	181
Exons	7355..7567, 7385..7567, 7569..7601, 7575..7601		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61198	Strand	+
Start	1916	End	10152
Name	OJ990429_26.9819.C16.o1.gs	Method	GENSCAN
Start	1916	End	10152
GI	none	Score	.42
Exons	1916..2041, 2729..3244, 3307..3641, 3760..4641, 4860..5584, 5625..5888, 7576..7762, 7991..8060, 9205..9282, 9499..9691, 9920..10152		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61198	Strand	+
Start	1916	End	10152

Name	OJ990429_26.9819.C16.o1.np	Method	AAT/NAP
Start	2885	End	6664
GI	6630696	Score	5655
Exons	2885..6664		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61199	Strand	+
Start	11258	End	11926
Name	OJ990429_26.9819.C16.o2.gs	Method	GENSCAN
Start	11258	End	11926
GI	none	Score	.88
Exons	11258..11926		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o4.tw	Method	TBLASTX:Wheat
Start	2780	End	3175
GI	none	Score	125
Exons	2780..2914, 2954..3175, 2954..3175		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o6.tm	Method	TBLASTX:Maize
Start	2930	End	3202
GI	none	Score	243
Exons	2930..3202, 2951..3202		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	3731	End	4135
GI	none	Score	372
Exons	3731..4075, 3754..4038, 3759..4052, 4073..4135		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o4.tm	Method	TBLASTX:Maize
Start	4223	End	4687
GI	none	Score	284
Exons	4223..4687, 4504..4614		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o5.tw	Method	TBLASTX:Wheat
Start	4331	End	4522
GI	none	Score	238
Exons	4331..4522, 4342..4521		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
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Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	4475	End	4872
GI	none	Score	192
Exons	4475..4693, 4546..4704, 4699..4872		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o1.tw	Method	TBLASTX:Wheat
Start	4523	End	5277
GI	none	Score	238
Exons	4523..4693, 4531..4701, 4698..5027, 4702..5277, 4727..5272, 4744..5277		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o2.ts	Method	TBLASTX:Soybean
Start	5209	End	5602
GI	5752663	Score	214
Exons	5209..5508, 5271..5459, 5495..5602		
GI Descrip.	-		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o1.tc	Method	TBLASTX:Cress
Start	5290	End	5551
GI	none	Score	240
Exons	5290..5508, 5292..5462, 5495..5551		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o3.tm	Method	TBLASTX:Maize
Start	5331	End	5779
GI	none	Score	158
Exons	5331..5462, 5332..5508, 5495..5779, 5498..5548		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o3.tw	Method	TBLASTX:Wheat
Start	5332	End	5896
GI	none	Score	160
Exons	5332..5508, 5349..5495, 5495..5677, 5672..5896		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o3.ts	Method	TBLASTX:Soybean
Start	5731	End	6082
GI	none	Score	135
Exons	5731..5859, 5732..5890, 5893..6078, 5894..6079, 5900..6082		



Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o5.tm	Method	TBLASTX:Maize
Start	5882	End	6231
GI	none	Score	242
Exons	5882..6169, 5888..6160, 5896..6168, 5989..6174, 6177..6230, 6178..6231		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o2.tw	Method	TBLASTX:Wheat
Start	6086	End	6528
GI	none	Score	108
Exons	6086..6160, 6086..6166, 6169..6255, 6177..6251, 6178..6252, 6247..6321, 6248..6526, 6248..6499, 6424..6528		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o6.tw	Method	TBLASTX:Wheat
Start	7007	End	7370
GI	none	Score	68
Exons	7007..7078, 7008..7079, 7080..7151, 7082..7162, 7088..7150, 7150..7224, 7151..7240, 7152..7244, 7153..7221, 7155..7241, 7179..7328, 7254..7370, 7256..7330, 7267..7341		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o4.np	Method	AAT/NAP
Start	9475	End	13279
GI	6721547	Score	94
Exons	9475..9501, 10080..10174, 13192..13279		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o3.np	Method	AAT/NAP
Start	11327	End	11873
GI	6041846	Score	507
Exons	11327..11873		
GI Descrip.	(AC009853) unknown protein [Arabidopsis thaliana]		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o1.gp	Method	AAT/GAP
Start	11334	End	11603
GI	3061204	Score	495
Exons	11334..11603		
GI Descrip.	6041846/gb AAF02155.1 AC009853_15 6.0e-16 (AC009853) unknown protein [Arabidopsis thaliana]		

Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
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Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o2.tc	Method	TBLASTX:Cress
Start	11525	End	11842
GI	none	Score	70
Exons	11525..11725, 11526..11651, 11732..11842, 11736..11834		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o2.gp	Method	AAT/GAP
Start	11650	End	12136
GI	569130	Score	673
Exons	11650..11915, 12029..12136		
GI Descrip.	6041846/gb AAF02155.1 AC009853_15 1.0e-09 (AC009853) unknown protein [Arabidopsis thaliana]		
Seq. No.	29631	Seq. ID	OJ990429_26.9819.C16
Gene No.	61200	Strand	-
Start	9475	End	13279
Name	OJ990429_26.9819.C16.o2.tm	Method	TBLASTX:Maize
Start	11678	End	11879
GI	none	Score	93
Exons	11678..11770, 11678..11878, 11688..11879		
Seq. No.	29632	Seq. ID	OJ990429_27.9819.C1
Gene No.	61201	Strand	-
Start	1	End	496
Name	OJ990429_27.9819.C1.o1.np	Method	AAT/NAP
Start	1	End	424
GI	6006359	Score	60
Exons	1..17, 313..424		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		
Seq. No.	29632	Seq. ID	OJ990429_27.9819.C1
Gene No.	61201	Strand	-
Start	1	End	496
Name	OJ990429_27.9819.C1.o1.gs	Method	GENSCAN
Start	266	End	496
GI	none	Score	.77
Exons	266..496		
Seq. No.	29633	Seq. ID	OJ990429_27.9819.C2
Gene No.	61202	Strand	-
Start	50	End	603
Name	OJ990429_27.9819.C2.o1.gs	Method	GENSCAN
Start	50	End	603
GI	none	Score	.53
Exons	50..148, 363..461, 494..603		
Seq. No.	29634	Seq. ID	OJ990429_27.9819.C3
Gene No.	61203	Strand	-
Start	1665	End	5377
Name	OJ990429_27.9819.C3.o1.gs	Method	GENSCAN
Start	1665	End	5377
GI	none	Score	.41
Exons	1665..1920, 2369..2489, 4583..4681, 4930..4994, 5027..5136,		

5165..5377

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61204	Strand	+
Start	440	End	874
Name	OJ990429_27.9819.C4.o1.np	Method	AAT/NAP
Start	440	End	874
GI	3860274	Score	261
Exons	440..874		
GI Descrip.	(AC005824) unknown protein [Arabidopsis thaliana]		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61205	Strand	+
Start	3107	End	5306
Name	OJ990429_27.9819.C4.o2.np	Method	AAT/NAP
Start	3107	End	4916
GI	6907106	Score	397
Exons	3107..3209, 3655..3933, 4368..4430, 4460..4680, 4745..4916		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61205	Strand	+
Start	3107	End	5306
Name	OJ990429_27.9819.C4.o3.gs	Method	GENSCAN
Start	4119	End	5306
GI	none	Score	.48
Exons	4119..4846, 5002..5087, 5176..5306		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61206	Strand	+
Start	17785	End	17952
Name	OJ990429_27.9819.C4.o6.gp	Method	AAT/GAP
Start	17785	End	17952
GI	53818_1.R1084	Score	218
Exons	17785..17952		
GI Descrip.	'4587518/gb AAD25749.1 AC007060 7 7.0e-20 (AC007060) Strong similarity to F19I3.8 gi_3033381 putative UDP-galactose-4-epimerase from Arabidopsis thaliana BAC gb_AC004238 and is a member of PF_01370 the NAD dependent epimerase/dehydratase family. EST gb_AA59'		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61207	Strand	+
Start	19075	End	23382
Name	OJ990429_27.9819.C4.o6.gs	Method	GENSCAN
Start	19075	End	23376
GI	none	Score	.98
Exons	19075..23376		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61207	Strand	+
Start	19075	End	23382
Name	OJ990429_27.9819.C4.o4.np	Method	AAT/NAP
Start	19114	End	23382
GI	5734736	Score	2819
Exons	19114..19690, 19733..20027, 20091..21492, 21646..23382		

GI Descrip. (AC007259) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61208	Strand	+
Start	24897	End	26742
Name	OJ990429_27.9819.C4.o7.gs	Method	GENSCAN
Start	24897	End	26742
GI	none	Score	.72
Exons	24897..24965, 26050..26742		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61208	Strand	+
Start	24897	End	26742
Name	OJ990429_27.9819.C4.o5.np	Method	AAT/NAP
Start	26289	End	26739
GI	4836932	Score	212
Exons	26289..26739		

GI Descrip. (AC006085) Unknown protein [Arabidopsis thaliana]

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61209	Strand	-
Start	469	End	1095
Name	OJ990429_27.9819.C4.o1.gp	Method	AAT/GAP
Start	469	End	1095
GI	48930_1.R1084	Score	1093
Exons	469..1095		

GI Descrip. '4586109/emb|CAB40945.1| 1.0e-25 (AL049638) putative protein [Arabidopsis thaliana]'

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61210	Strand	-
Start	5987	End	11069
Name	OJ990429_27.9819.C4.o3.np	Method	AAT/NAP
Start	5987	End	8027
GI	4512105	Score	514
Exons	5987..6042, 7048..7242, 7344..7630, 7736..8027		

GI Descrip. (AF121962) alliinase [Allium cepa]

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61210	Strand	-
Start	5987	End	11069
Name	OJ990429_27.9819.C4.o3.gp	Method	AAT/GAP
Start	6716	End	7246
GI	22615_1.R1084	Score	966
Exons	6716..7246		

GI Descrip. '399028/sp|Q01594|ALLN\_ALLSA 3.0e-12 ALLIIN LYASE PRECURSOR (ALLIINASE) (CYSTEINE SULPHOXIDE LYASE) >gi\_419808\_pir\_\_S29302 alliin lyase (EC 4.4.1.4) precursor - garlic >gi\_16109\_emb\_CAA78268\_ (Z12622) precursor alliinase [Allium sativum]'

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61210	Strand	-
Start	5987	End	11069
Name	OJ990429_27.9819.C4.o4.gs	Method	GENSCAN
Start	7013	End	11069
GI	none	Score	.96

Exons 7013..7242, 7344..7630, 7696..8027, 8147..8447, 9085..9188, 9824..9885, 10659..10696, 10726..11069

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61210 Strand -  
Start 5987 End 11069  
Name OJ990429\_27.9819.C4.o4.gp Method AAT/GAP  
Start 7551 End 8342  
GI 97415\_1.R1084 Score 1019  
Exons 7551..7630, 7736..8027, 8147..8342  
GI Descrip. '166341 8.0e-37 (M98267) alliinase [Allium cepa] >gi\_1044969 (L48614) allinase [Allium cepa]'

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61211 Strand -  
Start 11365 End 11457  
Name OJ990429\_27.9819.C4.o5.gp Method AAT/GAP  
Start 11365 End 11457  
GI LIB3477-003-P1-K1-E9 Score 126  
Exons 11365..11457  
GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61212 Strand -  
Start 12388 End 18066  
Name OJ990429\_27.9819.C4.o5.gs Method GENSCAN  
Start 12388 End 18066  
GI none Score .48  
Exons 12388..12402, 15050..15455, 17493..17710, 17905..18066

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61213 Strand -  
Start 28013 End 30655  
Name OJ990429\_27.9819.C4.o4.tc Method TBLASTX:Cress  
Start 467 End 26745  
GI none Score 99  
Exons 467..541, 665..886, 685..837, 26300..26407, 26481..26624, 26542..26631, 26680..26745

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61213 Strand -  
Start 28013 End 30655  
Name OJ990429\_27.9819.C4.o7.tm Method TBLASTX:Maize  
Start 475 End 26730  
GI none Score 98  
Exons 475..540, 476..541, 650..868, 691..837, 26341..26409, 26342..26461, 26553..26630, 26554..26631, 26633..26677, 26652..26693, 26677..26730

Seq. No. 29635 Seq. ID OJ990429\_27.9819.C4  
Gene No. 61213 Strand -  
Start 28013 End 30655  
Name OJ990429\_27.9819.C4.o4.ts Method TBLASTX:Soybean  
Start 476 End 26745  
GI none Score 64

Exons 476..538, 665..889, 703..831, 26342..26425, 26551..26631, 26565..26630, 26633..26677, 26677..26745

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o7.tw	Method	TBLASTX:Wheat
Start	689	End	26730
GI	none	Score	225
Exons	689..877, 694..831, 26467..26631, 26556..26630, 26633..26677, 26677..26730		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o1.tw	Method	TBLASTX:Wheat
Start	1800	End	28597
GI	none	Score	57
Exons	1800..1868, 1801..1866, 1894..1947, 1915..1944, 7070..7243, 7071..7175, 7073..7240, 7330..7584, 7335..7451, 7346..7576, 28070..28249, 28071..28160, 28073..28162, 28351..28587, 28357..28596, 28358..28597		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o1.tm	Method	TBLASTX:Maize
Start	1830	End	29271
GI	none	Score	117
Exons	1830..1868, 1897..1947, 7100..7243, 7100..7243, 7156..7245, 7330..7632, 7330..7629, 7344..7634, 7702..7854, 7734..7859, 7827..7925, 7852..7926, 7873..7932, 8204..8278, 8219..8275, 28100..28243, 28100..28249, 28356..28448, 28357..28641, 28357..28641, 28358..28642, 28718..28867, 28744..28872, 28840..28938, 28865..28939, 29197..29271, 29212..29268		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o6.tm	Method	TBLASTX:Maize
Start	4492	End	4820
GI	none	Score	83
Exons	4492..4692, 4500..4580, 4657..4776, 4681..4728, 4681..4716, 4729..4797, 4745..4819, 4761..4820		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o2.tc	Method	TBLASTX:Cress
Start	8150	End	30479
GI	none	Score	170
Exons	8150..8449, 8151..8447, 10728..10808, 10806..10910, 28975..29043, 29137..29442, 29147..29440, 30303..30377, 30375..30479		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-

Start	28013	End	30655
Name	OJ990429_27.9819.C4.o6.ts	Method	TBLASTX:Soybean
Start	8252	End	29440
GI	none	Score	103
Exons	8252..8446, 8253..8447, 29245..29439, 29246..29440		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o8.tm	Method	TBLASTX:Maize
Start	10726	End	30600
GI	none	Score	163
Exons	10726..10848, 10726..10830, 10728..10847, 10833..10967, 10887..10916, 10947..11060, 10957..11061, 30303..30401, 30304..30417, 30402..30491, 30405..30587, 30525..30599, 30526..30600		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o11.tm	Method	TBLASTX:Maize
Start	19019	End	19355
GI	none	Score	43
Exons	19019..19045, 19066..19101, 19123..19353, 19143..19355		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o6.tw	Method	TBLASTX:Wheat
Start	19231	End	19644
GI	none	Score	235
Exons	19231..19587, 19249..19644		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o5.tm	Method	TBLASTX:Maize
Start	19369	End	19760
GI	none	Score	200
Exons	19369..19572, 19374..19568, 19584..19643, 19585..19695, 19675..19758, 19692..19760		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o10.tm	Method	TBLASTX:Maize
Start	20175	End	20586
GI	none	Score	195
Exons	20175..20351, 20176..20394, 20455..20586		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o5.tw	Method	TBLASTX:Wheat
Start	20196	End	20652
GI	none	Score	176
Exons	20196..20399, 20197..20442, 20458..20565, 20566..20652		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o5.ts	Method	TBLASTX:Soybean
Start	20590	End	20919
GI	none	Score	209
Exons	20590..20919		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o2.tw	Method	TBLASTX:Wheat
Start	20740	End	21285
GI	none	Score	335
Exons	20740..21186, 20940..21179, 21190..21285		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o3.tm	Method	TBLASTX:Maize
Start	20932	End	21357
GI	none	Score	380
Exons	20932..21273, 20940..21263, 21286..21357		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o2.ts	Method	TBLASTX:Soybean
Start	20959	End	21435
GI	none	Score	395
Exons	20959..21435, 20967..21260		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o3.tc	Method	TBLASTX:Cress
Start	20974	End	21423
GI	none	Score	283
Exons	20974..21423, 20976..21059, 21084..21257, 21286..21420		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o3.ts	Method	TBLASTX:Soybean
Start	21847	End	22335
GI	5509260	Score	352
Exons	21847..22335, 21912..22085, 22170..22307		
GI Descrip.	-		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o4.tm	Method	TBLASTX:Maize
Start	21865	End	22179
GI	none	Score	318
Exons	21865..22179, 21883..22164		



Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o5.tc	Method	TBLASTX:Cress
Start	21954	End	22218
GI	none	Score	225
Exons	21954..22085, 21955..22218		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o3.tw	Method	TBLASTX:Wheat
Start	21999	End	22554
GI	none	Score	252
Exons	21999..22085, 22000..22344, 22000..22347, 22330..22554		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o9.tm	Method	TBLASTX:Maize
Start	22381	End	22644
GI	none	Score	245
Exons	22381..22644, 22381..22623, 22383..22643		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o2.tm	Method	TBLASTX:Maize
Start	22648	End	23100
GI	none	Score	423
Exons	22648..23100, 22683..23033, 22900..23079		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o1.tc	Method	TBLASTX:Cress
Start	22686	End	23349
GI	none	Score	263
Exons	22686..22955, 22687..22980, 22984..23100, 23098..23349, 23140..23292, 23142..23297		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o1.ts	Method	TBLASTX:Soybean
Start	22708	End	23358
GI	none	Score	147
Exons	22708..22869, 22737..22874, 22891..23358, 23169..23297		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o4.tw	Method	TBLASTX:Wheat
Start	22876	End	23319
GI	none	Score	151
Exons	22876..23103, 23125..23319, 23142..23318		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o8.gp	Method	AAT/GAP
Start	27706	End	28428
GI	4457 1.R1084	Score	1189
Exons	27706..28242, 28356..28428		
GI Descrip.	'4633652/gb AAD26853.1 AF124405_1 5.0e-23 (AF124405) alliinase precursor [Allium cepa]'		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o8.gs	Method	GENSCAN
Start	28013	End	30638
GI	none	Score	.92
Exons	28013..28242, 28356..29043, 29140..29440, 30295..30638		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o6.np	Method	AAT/NAP
Start	28049	End	29961
GI	4220523	Score	483
Exons	28049..28242, 28356..28642, 28748..29043, 29140..29459, 29912..29961		
GI Descrip.	(AL035356) putative alliin lyase [Arabidopsis thaliana]		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o9.gp	Method	AAT/GAP
Start	28619	End	29286
GI	97415 1.R1084	Score	702
Exons	28619..28642, 28748..29043, 29140..29286		
GI Descrip.	'166341 8.0e-37 (M98267) alliinase [Allium cepa] >gi_1044969 (L48614) allinase [Allium cepa]'		

Seq. No.	29635	Seq. ID	OJ990429_27.9819.C4
Gene No.	61213	Strand	-
Start	28013	End	30655
Name	OJ990429_27.9819.C4.o10.gp	Method	AAT/GAP
Start	29311	End	30655
GI	LIB3431-058-P1-K1-D2	Score	898
Exons	29311..29440, 30295..30655		
GI Descrip.	'15961/emb CAA78267  3.0e-22 (Z12621) precursor alliinase [Allium cepa]'		

Seq. No.	29636	Seq. ID	OJ990429_27.9819.C6
Gene No.	61214	Strand	-
Start	1	End	2075
Name	OJ990429_27.9819.C6.o1.np	Method	AAT/NAP
Start	1	End	2075
GI	1931639	Score	139
Exons	1..62, 782..1172, 2012..2075		
GI Descrip.	(U95973) lysophospholipase isolog [Arabidopsis thaliana]		

Seq. No.	29636	Seq. ID	OJ990429_27.9819.C6
Gene No.	61214	Strand	-
Start	1	End	2075
Name	OJ990429_27.9819.C6.o1.gs	Method	GENSCAN
Start	714	End	2017
GI	none	Score	.46
Exons	714..854, 915..1105, 1473..1629, 2012..2017		

Seq. No.	29636	Seq. ID	OJ990429_27.9819.C6
Gene No.	61214	Strand	-
Start	1	End	2075
Name	OJ990429_27.9819.C6.o2.np	Method	AAT/NAP
Start	1416	End	1749
GI	6539588	Score	217
Exons	1416..1749		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o1.ts	Method	TBLASTX:Soybean
Start	1636	End	2304
GI	none	Score	36
Exons	1636..1896, 1712..1735, 1790..1882, 1915..2304, 1958..2200		

Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o1.np	Method	AAT/NAP
Start	1648	End	2778
GI	6630685	Score	1112
Exons	1648..2778		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o1.tm	Method	TBLASTX:Maize
Start	1666	End	2322
GI	none	Score	116
Exons	1666..2322, 1681..1881, 1697..2314		

Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o2.tw	Method	TBLASTX:Wheat
Start	1711	End	2019
GI	none	Score	77
Exons	1711..1884, 1711..1887, 1906..2019		

Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o1.gs	Method	GENSCAN
Start	1759	End	2664

GI	none	Score	.86
Exons	1759..2664		
Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o1.tw	Method	TBLASTX:Wheat
Start	2068	End	2499
GI	none	Score	54
Exons	2068..2325, 2186..2314, 2350..2499		
Seq. No.	29637	Seq. ID	OJ990429_27.9819.C7
Gene No.	61215	Strand	-
Start	1759	End	2778
Name	OJ990429_27.9819.C7.o2.tm	Method	TBLASTX:Maize
Start	2437	End	2775
GI	none	Score	65
Exons	2437..2775, 2440..2553, 2450..2602, 2639..2725		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61216	Strand	+
Start	17	End	332
Name	OJ990429_27.9819.C8.o1.gs	Method	GENSCAN
Start	17	End	332
GI	none	Score	.63
Exons	17..220, 231..332		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o1.np	Method	AAT/NAP
Start	1	End	1627
GI	3645899	Score	739
Exons	1..65, 342..1627		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o1.ts	Method	TBLASTX:Soybean
Start	337	End	798
GI	none	Score	48
Exons	337..477, 340..468, 490..798, 497..784		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o1.tm	Method	TBLASTX:Maize
Start	340	End	976
GI	none	Score	260
Exons	340..492, 487..822, 488..799, 592..846, 909..971, 911..976		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o1.tc	Method	TBLASTX:Cress
Start	346	End	784

GI	none	Score	67
Exons	346..483, 493..783, 698..784		
Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o1.tw	Method	TBLASTX:Wheat
Start	478	End	1018
GI	none	Score	72
Exons	478..564, 583..744, 592..759, 872..1018		

Seq. No.	29638	Seq. ID	OJ990429_27.9819.C8
Gene No.	61217	Strand	-
Start	1	End	3167
Name	OJ990429_27.9819.C8.o2.gs	Method	GENSCAN
Start	1019	End	3167
GI	none	Score	.59
Exons	1019..1624, 1905..2603, 2956..3066, 3165..3167		

Seq. No.	29639	Seq. ID	OJ990429_27.9819.C9
Gene No.	61218	Strand	+
Start	1	End	6646
Name	OJ990429_27.9819.C9.o3.np	Method	AAT/NAP
Start	1	End	6646
GI	5852175	Score	148
Exons	1..37, 2867..3038, 3675..3731, 4308..4403, 5032..5069, 6607..6646		

GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No.	29639	Seq. ID	OJ990429_27.9819.C9
Gene No.	61218	Strand	+
Start	1	End	6646
Name	OJ990429_27.9819.C9.o1.gs	Method	GENSCAN
Start	948	End	1592
GI	none	Score	.67
Exons	948..1087, 1534..1592		

Seq. No.	29639	Seq. ID	OJ990429_27.9819.C9
Gene No.	61219	Strand	-
Start	1	End	1167
Name	OJ990429_27.9819.C9.o2.np	Method	AAT/NAP
Start	1	End	1167
GI	6539588	Score	209
Exons	1..115, 898..1167		

GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No.	29639	Seq. ID	OJ990429_27.9819.C9
Gene No.	61220	Strand	-
Start	2807	End	3275
Name	OJ990429_27.9819.C9.o2.gs	Method	GENSCAN
Start	2807	End	3275
GI	none	Score	.87
Exons	2807..2999, 3106..3275		

Seq. No.	29640	Seq. ID	OJ990429_27.9819.C10
Gene No.	61221	Strand	+
Start	114	End	1844

Name	OJ990429_27.9819.C10.o1.gs	Method	GENSCAN
Start	114	End	1844
GI	none	Score	.65
Exons	114..284, 1737..1844		
Seq. No.	29641	Seq. ID	OJ990429_27.9819.C11
Gene No.	61222	Strand	+
Start	426	End	1222
Name	OJ990429_27.9819.C11.o1.gs	Method	GENSCAN
Start	426	End	1222
GI	none	Score	.52
Exons	426..594, 804..861, 1116..1222		
Seq. No.	29641	Seq. ID	OJ990429_27.9819.C11
Gene No.	61223	Strand	-
Start	3116	End	3213
Name	OJ990429_27.9819.C11.o2.gs	Method	GENSCAN
Start	3116	End	3213
GI	none	Score	.65
Exons	3116..3213		
Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61224	Strand	+
Start	1624	End	5849
Name	OJ990429_27.9819.C12.o1.gp	Method	AAT/GAP
Start	1624	End	2108
GI	14600_1.R1084	Score	897
Exons	1624..2108		
GI Descrip.	'1438883 6.0e-11 (U43840) GmCK3p [Glycine max]'		
Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61224	Strand	+
Start	1624	End	5849
Name	OJ990429_27.9819.C12.o1.gs	Method	GENSCAN
Start	1864	End	5849
GI	none	Score	.81
Exons	1864..2286, 3486..3607, 3689..3884, 4391..4508, 4615..4662, 4841..4944, 5056..5090, 5239..5387, 5701..5849		
Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61224	Strand	+
Start	1624	End	5849
Name	OJ990429_27.9819.C12.o1.np	Method	AAT/NAP
Start	1885	End	5160
GI	6939222	Score	981
Exons	1885..2077, 2125..2286, 3486..3607, 3689..3884, 4391..4508, 4615..4663, 4845..4944, 5056..5160		
GI Descrip.	(AC020579) putative choline kinase [Arabidopsis thaliana]		
Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61224	Strand	+
Start	1624	End	5849
Name	OJ990429_27.9819.C12.o2.gp	Method	AAT/GAP
Start	2227	End	5595
GI	10475_1.R1084	Score	2132
Exons	2227..2286, 3486..3607, 3689..3884, 4391..4508, 4615..4662, 4841..4944, 5056..5595		

GI Descrip. '1438883 9.0e-93 (U43840) GmCK3p [Glycine max]'

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61225	Strand	+
Start	10536	End	10951
Name	OJ990429_27.9819.C12.o2.np	Method	AAT/NAP
Start	10536	End	10951
GI	4468804	Score	157
Exons	10536..10951		
GI Descrip.	(AL035601) putative protein [Arabidopsis thaliana]		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o2.tm	Method	TBLASTX:Maize
Start	1855	End	2184
GI	none	Score	69
Exons	1855..1920, 1857..1916, 1878..1922, 1899..2060, 1903..2073, 1951..2073, 2095..2184, 2146..2184		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o1.tc	Method	TBLASTX:Cress
Start	1981	End	2286
GI	none	Score	97
Exons	1981..2055, 2164..2286		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o1.ts	Method	TBLASTX:Soybean
Start	1981	End	5148
GI	none	Score	91
Exons	1981..2055, 2146..2286, 3483..3608, 3485..3595, 3686..3886, 3687..3884, 4376..4519, 4384..4509, 4395..4520, 4620..4664, 4849..4944, 5047..5148		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o1.tm	Method	TBLASTX:Maize
Start	2185	End	4639
GI	none	Score	172
Exons	2185..2286, 3483..3608, 3485..3610, 3684..3884, 3685..3882, 3686..3886, 3687..3884, 4376..4495, 4390..4497, 4399..4497, 4613..4639, 4614..4637		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o2.tc	Method	TBLASTX:Cress
Start	4379	End	5148
GI	none	Score	205
Exons	4379..4519, 4390..4509, 4852..4944, 4872..4946, 5047..5148, 5054..5119		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o1.tw	Method	TBLASTX:Wheat
Start	4452	End	5229
GI	none	Score	88
Exons	4452..4532, 4457..4507, 4613..4660, 4614..4661, 4846..4944, 4849..4950, 5046..5153, 5047..5157, 5054..5152, 5091..5156, 5166..5192, 5173..5193, 5186..5227, 5187..5228, 5188..5229		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o3.tm	Method	TBLASTX:Maize
Start	4844	End	5243
GI	none	Score	161
Exons	4844..4945, 4846..4944, 4872..4946, 5047..5139, 5054..5161, 5150..5191, 5202..5243		

Seq. No.	29642	Seq. ID	OJ990429_27.9819.C12
Gene No.	61226	Strand	-
Start	6460	End	10586
Name	OJ990429_27.9819.C12.o2.gs	Method	GENSCAN
Start	6460	End	10586
GI	none	Score	.53
Exons	6460..7143, 8869..9059, 9155..9270, 9845..9994, 10522..10586		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61227	Strand	+
Start	1125	End	1308
Name	OJ990429_27.9819.C13.o1.gp	Method	AAT/GAP
Start	1125	End	1308
GI	none	Score	276
Exons	1125..1308		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61228	Strand	+
Start	10354	End	14458
Name	OJ990429_27.9819.C13.o2.gs	Method	GENSCAN
Start	10354	End	14458
GI	none	Score	.43
Exons	10354..10585, 10918..11010, 11201..11261, 12385..12614, 13785..14458		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61228	Strand	+
Start	10354	End	14458
Name	OJ990429_27.9819.C13.o2.np	Method	AAT/NAP
Start	13345	End	13459
GI	5777617	Score	73
Exons	13345..13459		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61228	Strand	+
Start	10354	End	14458
Name	OJ990429_27.9819.C13.o3.np	Method	AAT/NAP



Start	13663	End	14270
GI	5262765	Score	228
Exons	13663..14270		
GI Descrip.	(AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61229	Strand	+
Start	15274	End	15530
Name	OJ990429_27.9819.C13.o4.gp	Method	AAT/GAP
Start	15274	End	15530
GI	LIB3431-010-P1-N1-F11	Score	490
Exons	15274..15530		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61230	Strand	-
Start	1570	End	7028
Name	OJ990429_27.9819.C13.o2.gp	Method	AAT/GAP
Start	1416	End	2686
GI	72477 1.R1084	Score	1117
Exons	1416..1792, 2340..2482, 2573..2686		
GI Descrip.	'4204695 2.0e-38 (AF117062) putative inositol polyphosphate 5-phosphatase At5P1 [Arabidopsis thaliana]'		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61230	Strand	-
Start	1570	End	7028
Name	OJ990429_27.9819.C13.o1.gs	Method	GENSCAN
Start	1570	End	7028
GI	none	Score	.66
Exons	1570..1792, 2340..2482, 2573..2681, 3207..3391, 4158..4503, 4612..4716, 5174..5268, 6379..6452, 6604..6724, 6852..7028		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61230	Strand	-
Start	1570	End	7028
Name	OJ990429_27.9819.C13.o1.np	Method	AAT/NAP
Start	1594	End	4993
GI	6682606	Score	1237
Exons	1594..1792, 2340..2482, 2573..2681, 3207..3391, 3699..4503, 4612..4716, 4947..4993		
GI Descrip.	(AC016163) putative inositol polyphosphate phosphatase, 5' partial [Arabidopsis thaliana]		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61230	Strand	-
Start	1570	End	7028
Name	OJ990429_27.9819.C13.o3.gp	Method	AAT/GAP
Start	3957	End	4297
GI	none	Score	652
Exons	3957..4297		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o4.ts	Method	TBLASTX:Soybean

Start	1615	End	1804
GI	none	Score	165
Exons	1615..1791, 1628..1804, 1637..1792		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o2.tc	Method	TBLASTX:Cress
Start	1621	End	6721
GI	none	Score	124
Exons	1621..1791, 1637..1792, 1668..1802, 1858..1971, 2324..2476, 2334..2501, 2570..2680, 2571..2681, 3242..3394, 3248..3385, 3265..3393, 3693..3872, 3699..3839, 3736..3840, 3960..4052, 4338..4499, 4339..4497, 4611..4718, 4613..4714, 4614..4715, 4946..5002, 6665..6721		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o2.tm	Method	TBLASTX:Maize
Start	1720	End	2669
GI	none	Score	76
Exons	1720..1791, 1721..1792, 2334..2519, 2335..2466, 2339..2479, 2567..2668, 2568..2669		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o6.ts	Method	TBLASTX:Soybean
Start	2351	End	2680
GI	none	Score	127
Exons	2351..2476, 2358..2483, 2570..2680		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o3.tm	Method	TBLASTX:Maize
Start	3176	End	3897
GI	none	Score	194
Exons	3176..3394, 3207..3392, 3209..3394, 3693..3896, 3695..3889, 3699..3893, 3736..3897		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o5.ts	Method	TBLASTX:Soybean
Start	3320	End	3962
GI	none	Score	64
Exons	3320..3394, 3321..3392, 3693..3962, 3699..3830, 3736..3852		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o5.tm	Method	TBLASTX:Maize
Start	4335	End	5023
GI	none	Score	121
Exons	4335..4502, 4336..4497, 4611..4637, 4647..4718, 4946..5002,		

4997..5023

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o3.ts	Method	TBLASTX:Soybean
Start	4345	End	4718
GI	none	Score	76
Exons	4345..4476, 4347..4472, 4347..4484, 4348..4476, 4479..4499, 4611..4718, 4614..4706		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o3.gs	Method	GENSCAN
Start	15639	End	19159
GI	none	Score	.45
Exons	15639..16280, 16403..16572, 17881..18003, 18496..18647, 18933..19159		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o4.np	Method	AAT/NAP
Start	15651	End	16552
GI	3892708	Score	595
Exons	15651..16280, 16403..16552		
GI Descrip.	(AL033545) putative protein [Arabidopsis thaliana]		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o5.gp	Method	AAT/GAP
Start	15656	End	16101
GI	LIB3433-026-P1-K1-F6	Score	840
Exons	15656..16101		
GI Descrip.	'3892708/emb CAA22158.1  2.0e-26 (AL033545) putative protein [Arabidopsis thaliana]'		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o1.ts	Method	TBLASTX:Soybean
Start	15759	End	16552
GI	none	Score	103
Exons	15759..15956, 16017..16280, 16030..16260, 16394..16552		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	15855	End	16574
GI	none	Score	482
Exons	15855..16277, 15855..16286, 15880..16281, 16397..16555, 16404..16559, 16473..16574		

Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
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Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o1.tc	Method	TBLASTX:Cress
Start	16014	End	16496
GI	none	Score	153
Exons	16014..16280, 16021..16278, 16397..16495, 16401..16496		
Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o6.gp	Method	AAT/GAP
Start	16119	End	16623
GI	LIB3431-010-P1-K1-F10	Score	660
Exons	16119..16280, 16403..16623		
GI Descrip.	'3892708/emb CAA22158.1  6.0e-27 (AL033545) putative protein [Arabidopsis thaliana]'		
Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o5.np	Method	AAT/NAP
Start	17861	End	19282
GI	4417279	Score	1476
Exons	17861..18889, 18935..19282		
GI Descrip.	(AC007019) unknown protein [Arabidopsis thaliana]		
Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o4.tm	Method	TBLASTX:Maize
Start	18320	End	18539
GI	none	Score	192
Exons	18320..18511, 18325..18510, 18325..18513, 18513..18539		
Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o2.ts	Method	TBLASTX:Soybean
Start	18644	End	18862
GI	none	Score	199
Exons	18644..18862, 18645..18860		
Seq. No.	29643	Seq. ID	OJ990429_27.9819.C13
Gene No.	61231	Strand	-
Start	15639	End	19282
Name	OJ990429_27.9819.C13.o7.ts	Method	TBLASTX:Soybean
Start	18935	End	19159
GI	none	Score	79
Exons	18935..19087, 19097..19159		
Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61232	Strand	+
Start	683	End	907
Name	OJ990429_27.9819.C14.o1.gs	Method	GENSCAN
Start	683	End	907
GI	none	Score	.44
Exons	683..907		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61233	Strand	+
Start	5175	End	14204
Name	OJ990429_27.9819.C14.o2.gs	Method	GENSCAN
Start	5175	End	12732
GI	none	Score	.66
Exons	5175..5228, 5326..5635, 6212..6364, 6479..6606, 8458..8612, 9026..9300, 9315..9405, 9929..10057, 10422..10678, 11257..11297, 11327..11525, 11974..12161, 12529..12732		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61233	Strand	+
Start	5175	End	14204
Name	OJ990429_27.9819.C14.o2.np	Method	AAT/NAP
Start	10326	End	14204
GI	5882749	Score	160
Exons	10326..10378, 12098..12161, 12529..12702, 14177..14204		
GI Descrip.	(AC008263) Contains 2 PF 00612 IQ calmodulin-binding motif domains. [Arabidopsis thaliana]		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61233	Strand	+
Start	5175	End	14204
Name	OJ990429_27.9819.C14.o1.gp	Method	AAT/GAP
Start	11134	End	14204
GI	22827_1.R1084	Score	1421
Exons	11134..11297, 11398..11525, 11916..12161, 12529..12732, 14030..14113, 14171..14204		
GI Descrip.	'5882749/gb AAD55302.1 AC008263_33 7.0e-27 (AC008263) Contains 2 PF_00612 IQ calmodulin-binding motif domains. [Arabidopsis thaliana]'		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61234	Strand	-
Start	1401	End	1485
Name	OJ990429_27.9819.C14.o1.np	Method	AAT/NAP
Start	1401	End	1485
GI	6721547	Score	81
Exons	1401..1485		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61235	Strand	
Start	5341	End	5607
Name	OJ990429_27.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	5341	End	5607
GI	none	Score	203
Exons	5341..5499, 5376..5468, 5551..5607		

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61236	Strand	
Start	11419	End	12737
Name	OJ990429_27.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	11419	End	12729
GI	none	Score	74
Exons	11419..11484, 11435..11488, 11436..11480, 11438..11488,		

11480..11521, 11488..11526, 11919..11996, 12030..12161,  
12049..12162, 12528..12722, 12529..12729, 12529..12729

Seq. No.	29644	Seq. ID	OJ990429_27.9819.C14
Gene No.	61236	Strand	
Start	11419	End	12737
Name	OJ990429_27.9819.C14.o1.tc	Method	TBLASTX:Cress
Start	11429	End	12737
GI	none	Score	68
Exons	11429..11515, 11430..11480, 12526..12711, 12528..12737		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	1446
GI	6539269	Score	254
Exons	1..85, 258..897, 1009..1446		
GI Descrip.	(AC011765) unknown protein [Arabidopsis thaliana]		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	246	End	1351
GI	none	Score	213
Exons	246..503, 250..477, 251..541, 257..487, 282..509, 423..575, 518..748, 519..662, 545..748, 552..752, 553..759, 553..753, 668..784, 682..774, 687..776, 688..771, 761..832, 774..830, 780..842, 850..921, 859..966, 907..951, 918..1052, 920..1051, 1059..1349, 1066..1350, 1067..1351, 1067..1351		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o1.gs	Method	GENSCAN
Start	258	End	4428
GI	none	Score	.89
Exons	258..1347, 2978..3120, 3217..4428		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o1.gp	Method	AAT/GAP
Start	615	End	1168
GI	none	Score	1108
Exons	615..1168		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o1.tw	Method	TBLASTX:Wheat
Start	975	End	1392
GI	none	Score	78
Exons	975..1124, 975..1064, 983..1198, 1059..1199, 1084..1200, 1086..1241, 1213..1296, 1214..1297, 1215..1292, 1219..1299, 1284..1391, 1294..1392, 1295..1387		

Seq. No.	29645	Seq. ID	OJ990429_27.9819.C15
Gene No.	61237	Strand	+
Start	1	End	4428
Name	OJ990429_27.9819.C15.o2.gp	Method	AAT/GAP
Start	1298	End	2559
GI	none	Score	744
Exons	1298..1347, 2224..2559		

Seq. No.	29646	Seq. ID	OJ990429_27.9819.C16
Gene No.	61238	Strand	+
Start	172	End	1305
Name	OJ990429_27.9819.C16.o1.gs	Method	GENSCAN
Start	172	End	1305
GI	none	Score	.5
Exons	172..304, 443..517, 809..1305		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o1.np	Method	AAT/NAP
Start	1	End	2991
GI	4206306	Score	1199
Exons	1..2692, 2907..2991		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o1.gs	Method	GENSCAN
Start	34	End	2866
GI	none	Score	.91
Exons	34..397, 574..762, 809..1388, 1627..2866		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o4.tw	Method	TBLASTX:Wheat
Start	307	End	581
GI	none	Score	139
Exons	307..396, 408..581		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o3.tm	Method	TBLASTX:Maize
Start	420	End	725
GI	none	Score	203
Exons	420..725		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o2.tw	Method	TBLASTX:Wheat
Start	979	End	1377
GI	none	Score	38
Exons	979..1248, 1001..1132, 1172..1237, 1288..1377		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o2.ts	Method	TBLASTX:Soybean
Start	1010	End	1423
GI	none	Score	136
Exons	1010..1264, 1012..1263, 1285..1341, 1285..1386, 1289..1387, 1394..1423		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o1.ts	Method	TBLASTX:Soybean
Start	1574	End	2044
GI	none	Score	86
Exons	1574..1762, 1587..1718, 1763..2044, 1932..2006		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o3.tw	Method	TBLASTX:Wheat
Start	1661	End	2059
GI	none	Score	194
Exons	1661..1762, 1724..2059		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o1.tm	Method	TBLASTX:Maize
Start	1730	End	2191
GI	none	Score	76
Exons	1730..2191, 1731..1850, 1796..2191		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o1.tw	Method	TBLASTX:Wheat
Start	2060	End	2464
GI	none	Score	183
Exons	2060..2338, 2067..2174, 2081..2413, 2103..2405, 2320..2406, 2408..2464, 2418..2459		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o2.tm	Method	TBLASTX:Maize
Start	2192	End	2410
GI	none	Score	181
Exons	2192..2410, 2193..2405		

Seq. No.	29647	Seq. ID	OJ990429_27.9819.C17
Gene No.	61239	Strand	-
Start	1	End	2991
Name	OJ990429_27.9819.C17.o3.ts	Method	TBLASTX:Soybean
Start	2261	End	2626
GI	none	Score	75



Exons 2261..2395, 2402..2626, 2403..2615

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61240 Strand +  
Start 4259 End 7206  
Name OJ990429\_27.9819.C18.o1.np Method AAT/NAP  
Start 4259 End 7089  
GI 6539263 Score 832  
Exons 4259..4284, 5451..5991, 6199..7089  
GI Descrip. (AC011765) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61240 Strand +  
Start 4259 End 7206  
Name OJ990429\_27.9819.C18.o2.gs Method GENSCAN  
Start 5380 End 7206  
GI none Score .66  
Exons 5380..7206

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61241 Strand +  
Start 7555 End 8282  
Name OJ990429\_27.9819.C18.o1.gp Method AAT/GAP  
Start 7551 End 7855  
GI none Score 528  
Exons 7551..7855

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61241 Strand +  
Start 7555 End 8282  
Name OJ990429\_27.9819.C18.o3.gs Method GENSCAN  
Start 7555 End 8282  
GI none Score .99  
Exons 7555..7947, 8058..8282

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61242 Strand +  
Start 9503 End 9801  
Name OJ990429\_27.9819.C18.o2.gp Method AAT/GAP  
Start 9503 End 9801  
GI uC-osflcyp141h11b1 Score 574  
Exons 9503..9801  
GI Descrip. '4151319 1.0e-34 (AF089084) putative auxin efflux carrier protein; AtPIN1 [Arabidopsis thaliana]'

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18  
Gene No. 61243 Strand +  
Start 14975 End 15090  
Name OJ990429\_27.9819.C18.o4.np Method AAT/NAP  
Start 14975 End 15090  
GI 5817301 Score 138  
Exons 14975..15090  
GI Descrip. (AF087818) auxin transport protein [Arabidopsis thaliana]  
gi|5902405|gb|AAD55507.1|AC008148\_17 (AC008148) auxin transport protein [Arabidopsis thaliana]

Seq. No. 29648 Seq. ID OJ990429\_27.9819.C18

Gene No.	61244	Strand	-
Start	122	End	4610
Name	OJ990429_27.9819.C18.o1.gs	Method	GENSCAN
Start	122	End	4610
GI	none	Score	.48
Exons	122..1432, 1588..2116, 2400..2578, 2702..2791, 3067..3634, 3940..4136, 4496..4610		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o2.tm	Method	TBLASTX:Maize
Start	5488	End	11754
GI	none	Score	35
Exons	5488..5628, 5634..5714, 5644..5901, 5662..5913, 5688..5900, 5695..5766, 5721..5873, 5742..5879, 5743..5913, 5839..6006, 5842..6048, 5842..6090, 5874..6047, 6019..6117, 6127..6336, 6133..6372, 6136..6303, 6144..6335, 6226..6396, 6319..7194, 6322..6642, 6448..6555, 6598..6765, 10591..11418, 10640..10840, 10919..11296, 11089..11400, 11222..11401, 11341..11535, 11359..11604, 11413..11604, 11446..11610, 11482..11598, 11548..11622, 11680..11754, 11681..11752		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o4.ts	Method	TBLASTX:Soybean
Start	5581	End	11607
GI	none	Score	52
Exons	5581..5709, 5743..5874, 5848..5985, 5917..6126, 6136..6288, 6217..6435, 6433..6588, 11074..11229, 11161..11310, 11168..11314, 11320..11532, 11371..11529, 11464..11607		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o2.tc	Method	TBLASTX:Cress
Start	5644	End	11622
GI	none	Score	252
Exons	5644..6093, 5647..5796, 5689..5925, 5847..6011, 5848..6018, 6022..6087, 6094..6225, 6124..6615, 6127..6303, 6141..6302, 6181..6606, 6288..6386, 6295..6375, 6391..6597, 6436..6621, 6438..6617, 6490..6690, 6610..6729, 6625..6729, 11020..11142, 11021..11131, 11029..11250, 11128..11415, 11140..11619, 11141..11542, 11446..11577, 11455..11622		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o1.tw	Method	TBLASTX:Wheat
Start	5650	End	11620
GI	none	Score	151
Exons	5650..5910, 5748..5909, 5848..6090, 5974..6138, 6021..6101, 6130..6363, 6280..6747, 6300..6689, 6597..6692, 10994..11422, 10996..11475, 11359..11619, 11363..11620		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
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Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o1.ts	Method	TBLASTX:Soybean
Start	6688	End	11061
GI	none	Score	284
Exons	6688..7125, 6744..6851, 6925..7125, 10525..11061, 10685..11026		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o1.tc	Method	TBLASTX:Cress
Start	6928	End	10834
GI	none	Score	186
Exons	6928..7149, 6958..7110, 10297..10833, 10300..10590, 10649..10834		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o1.tm	Method	TBLASTX:Maize
Start	7674	End	8252
GI	none	Score	61
Exons	7674..7730, 7680..7949, 7696..7731, 7735..7962, 8064..8252, 8130..8252		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o3.tc	Method	TBLASTX:Cress
Start	7680	End	8096
GI	none	Score	163
Exons	7680..7835, 7696..7839, 7854..7943, 7855..7956, 8058..8096		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o2.ts	Method	TBLASTX:Soybean
Start	7695	End	8096
GI	none	Score	122
Exons	7695..7787, 7696..7791, 7794..7949, 7795..7956, 8058..8096		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o3.ts	Method	TBLASTX:Soybean
Start	10260	End	10521
GI	none	Score	81
Exons	10260..10391, 10296..10376, 10300..10440, 10300..10521		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o3.tm	Method	TBLASTX:Maize
Start	10291	End	10590
GI	none	Score	339
Exons	10291..10590		

Seq. No.	29648	Seq. ID	OJ990429_27.9819.C18
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Gene No.	61245	Strand	-
Start	10303	End	13443
Name	OJ990429_27.9819.C18.o2.np	Method	AAT/NAP
Start	10303	End	13443
GI	2244839	Score	1102
Exons	10303..11752, 13362..13443		
GI Descrip.	(Z97337) hypothetical protein [Arabidopsis thaliana]		

  

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61246	Strand	+
Start	1	End	1822
Name	OJ990429_27.9819.C19.o1.np	Method	AAT/NAP
Start	1	End	1731
GI	5817301	Score	360
Exons	1..33, 853..940, 1034..1119, 1237..1394, 1490..1566, 1668..1731		
GI Descrip.	(AF087818) auxin transport protein [Arabidopsis thaliana] gi 5902405 gb AAD55507.1 AC008148_17 (AC008148) auxin transport protein [Arabidopsis thaliana]		

  

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61246	Strand	+
Start	1	End	1822
Name	OJ990429_27.9819.C19.o1.gp	Method	AAT/GAP
Start	1048	End	1822
GI	2311558	Score	841
Exons	1048..1119, 1237..1394, 1490..1566, 1668..1822		
GI Descrip.	4151319 1.0e-34 (AF089084) putative auxin efflux carrier protein; AtPIN1 [Arabidopsis thaliana]		

  

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61247	Strand	-
Start	2378	End	5107
Name	OJ990429_27.9819.C19.o1.ts	Method	TBLASTX:Soybean
Start	792	End	1725
GI	none	Score	98
Exons	792..944, 863..952, 1031..1120, 1032..1121, 1235..1390, 1236..1394, 1265..1396, 1479..1556, 1484..1564, 1486..1563, 1645..1725		

  

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61247	Strand	-
Start	2378	End	5107
Name	OJ990429_27.9819.C19.o1.tc	Method	TBLASTX:Cress
Start	855	End	1725
GI	none	Score	87
Exons	855..944, 1031..1120, 1032..1121, 1235..1387, 1236..1394, 1262..1402, 1484..1567, 1489..1566, 1645..1725		

  

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61247	Strand	-
Start	2378	End	5107
Name	OJ990429_27.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	855	End	1725
GI	none	Score	94
Exons	855..944, 1032..1121, 1034..1120, 1235..1393, 1236..1394, 1484..1564, 1489..1563, 1669..1725		

Seq. No.	29649	Seq. ID	OJ990429_27.9819.C19
Gene No.	61247	Strand	-
Start	2378	End	5107
Name	OJ990429_27.9819.C19.o2.np	Method	AAT/NAP
Start	2378	End	5107
GI	5306245	Score	143
Exons	2378..2570, 2727..2968, 3240..3500, 4912..5107		
GI Descrip.	(AC006438) unknown protein [Arabidopsis thaliana]		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61248	Strand	+
Start	114	End	1281
Name	OJ990429_27.9819.C20.o1.gs	Method	GENSCAN
Start	114	End	1281
GI	none	Score	.81
Exons	114..297, 405..454, 545..753, 975..1281		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61248	Strand	+
Start	114	End	1281
Name	OJ990429_27.9819.C20.o1.np	Method	AAT/NAP
Start	114	End	1278
GI	5929932	Score	700
Exons	114..224, 365..454, 545..753, 975..1278		
GI Descrip.	(AF178952) voltage-dependent anion channel protein 2 [Zea mays]		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61249	Strand	-
Start	1930	End	5228
Name	OJ990429_27.9819.C20.o2.gs	Method	GENSCAN
Start	1930	End	5218
GI	none	Score	.84
Exons	1930..2058, 2141..2278, 2381..2548, 2909..3031, 3466..3613, 4445..4551, 5039..5218		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61249	Strand	-
Start	1930	End	5228
Name	OJ990429_27.9819.C20.o2.np	Method	AAT/NAP
Start	2126	End	5228
GI	6358810	Score	1330
Exons	2126..2278, 2381..2548, 2909..3031, 3466..3714, 4445..4551, 5039..5228		
GI Descrip.	(AC010675) putative alpha-amylase [Arabidopsis thaliana]		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o4.tm	Method	TBLASTX:Maize
Start	116	End	756
GI	none	Score	123
Exons	116..217, 117..221, 117..212, 358..453, 359..454, 370..456, 535..636, 542..754, 544..756		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511

Name	OJ990429_27.9819.C20.o1.tc	Method	TBLASTX:Cress
Start	117	End	1299
GI	none	Score	68
Exons	117..221, 542..754, 542..757, 544..759, 975..1019, 976..1044, 1035..1280, 1036..1299		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o1.ts	Method	TBLASTX:Soybean
Start	117	End	1281
GI	none	Score	79
Exons	117..221, 368..457, 373..456, 542..754, 542..757, 547..759, 975..1277, 976..1281		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o2.tm	Method	TBLASTX:Maize
Start	950	End	1299
GI	none	Score	63
Exons	950..1114, 975..1280, 976..1299		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o1.tm	Method	TBLASTX:Maize
Start	1947	End	3514
GI	none	Score	46
Exons	1947..2015, 2097..2279, 2102..2281, 2132..2281, 2372..2548, 2380..2556, 2382..2549, 2891..3031, 2902..3075, 2903..3028, 2910..3032, 3458..3514, 3466..3513, 3470..3514		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o2.ts	Method	TBLASTX:Soybean
Start	2112	End	3023
GI	none	Score	58
Exons	2112..2192, 2114..2191, 2189..2278, 2190..2276, 2372..2548, 2379..2552, 2447..2557, 2448..2558, 2888..3022, 2898..3023, 2913..3023		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o3.tc	Method	TBLASTX:Cress
Start	2189	End	3032
GI	none	Score	78
Exons	2189..2266, 2190..2273, 2376..2549, 2381..2557, 2381..2548, 2391..2558, 2891..3031, 2903..3013, 2913..3032		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o4.tc	Method	TBLASTX:Cress
Start	3460	End	3713

GI	none	Score	141
Exons	3460..3621, 3466..3642, 3573..3710, 3612..3713, 3613..3711		
Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o3.ts	Method	TBLASTX:Soybean
Start	3464	End	4548
GI	none	Score	109
Exons	3464..3610, 3466..3630, 3466..3624, 3612..3716, 3616..3711, 4379..4546, 4429..4548		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o3.tm	Method	TBLASTX:Maize
Start	3543	End	5247
GI	none	Score	72
Exons	3543..3611, 3544..3609, 3553..3612, 3594..3716, 3612..3716, 3613..3717, 4429..4470, 4435..4467, 4439..4471, 4455..4553, 4465..4551, 4466..4558, 5033..5245, 5034..5228, 5038..5247		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o2.tc	Method	TBLASTX:Cress
Start	4445	End	5245
GI	none	Score	163
Exons	4445..4558, 4447..4569, 4447..4551, 5027..5230, 5033..5245, 5034..5234		

Seq. No.	29650	Seq. ID	OJ990429_27.9819.C20
Gene No.	61250	Strand	-
Start	5385	End	5511
Name	OJ990429_27.9819.C20.o3.gs	Method	GENSCAN
Start	5385	End	5511
GI	none	Score	.98
Exons	5385..5511		

Seq. No.	29651	Seq. ID	OJ990429_27.9819.C22
Gene No.	61251	Strand	-
Start	159	End	408
Name	OJ990429_27.9819.C22.o1.gs	Method	GENSCAN
Start	159	End	408
GI	none	Score	.65
Exons	159..301, 303..408		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61252	Strand	+
Start	1	End	32708
Name	OJ990429_22.9819.C2.o2.np	Method	AAT/NAP
Start	1	End	32708
GI	4584539	Score	189
Exons	1..65, 4121..4247, 10354..10527, 10894..11373, 17542..17916, 32608..32708		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61252	Strand	+
Start	1	End	32708
Name	OJ990429_22.9819.C2.o3.gs	Method	GENSCAN
Start	10235	End	12989
GI	none	Score	.51
Exons	10235..10242, 11069..11183, 11265..11504, 12882..12989		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61252	Strand	+
Start	1	End	32708
Name	OJ990429_22.9819.C2.o5.gs	Method	GENSCAN
Start	17466	End	20345
GI	none	Score	.4
Exons	17466..18176, 19872..19994, 20211..20345		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61252	Strand	+
Start	1	End	32708
Name	OJ990429_22.9819.C2.o3.gp	Method	AAT/GAP
Start	20212	End	20484
GI	2798171	Score	437
Exons	20212..20484		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61253	Strand	+
Start	50528	End	57885
Name	OJ990429_22.9819.C2.o11.gs	Method	GENSCAN
Start	50528	End	57474
GI	none	Score	.53
Exons	50528..50678, 51320..51514, 51828..51955, 52336..52562, 52652..52773, 53965..54171, 54253..54440, 54842..54977, 55993..56156, 56939..57060, 57402..57474		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61253	Strand	+
Start	50528	End	57885
Name	OJ990429_22.9819.C2.o6.np	Method	AAT/NAP
Start	51978	End	57061
GI	4836944	Score	1210
Exons	51978..52016, 52623..52773, 53965..54164, 54243..54440, 54842..54977, 55322..55418, 55549..55649, 55993..56156, 56378..56566, 56754..56849, 56939..57061		

GI Descrip. (AC006085) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61253	Strand	+
Start	50528	End	57885
Name	OJ990429_22.9819.C2.o4.gp	Method	AAT/GAP
Start	56490	End	57885
GI	LIB3432-057-P1-K1-G9	Score	842
Exons	56490..56566, 56754..57060, 57784..57885		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61254	Strand	+



Start 61132  
 Name OJ990429\_22.9819.C2.o13.gs  
 Start 61132  
 GI none  
 Exons 61132..61179, 61274..61387

End 61387  
 Method GENSCAN  
 End 61387  
 Score .76

Seq. No. 29652  
 Gene No. 61255  
 Start 68801  
 Name OJ990429\_22.9819.C2.o15.gs  
 Start 68801  
 GI none  
 Exons 68801..68823, 68878..68993, 70378..71799, 71847..73238, 73356..73735

Seq. ID OJ990429\_22.9819.C2  
 Strand +  
 End 73735  
 Method GENSCAN  
 End 73735  
 Score .45

Seq. No. 29652  
 Gene No. 61255  
 Start 68801  
 Name OJ990429\_22.9819.C2.o8.np  
 Start 70375  
 GI 2586083  
 Exons 70375..70866, 70942..71211, 71503..73262, 73356..73711  
 GI Descrip. (U72725) receptor kinase-like protein [Oryza longistaminata]

Seq. ID OJ990429\_22.9819.C2  
 Strand +  
 End 73735  
 Method AAT/NAP  
 End 73711  
 Score 1429

Seq. No. 29652  
 Gene No. 61256  
 Start 1159  
 Name OJ990429\_22.9819.C2.o1.gs  
 Start 1159  
 GI none  
 Exons 1159..1269, 1546..1629, 1818..1929, 2032..2164, 2183..2368, 2536..2742, 2763..3180

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 3180  
 Method GENSCAN  
 End 3180  
 Score .67

Seq. No. 29652  
 Gene No. 61257  
 Start 7855  
 Name OJ990429\_22.9819.C2.o1.np  
 Start 7855  
 GI 4584539  
 Exons 7855..8160, 8196..8320, 10345..10369  
 GI Descrip. (AL049608) extensin-like protein [Arabidopsis thaliana]

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 10369  
 Method AAT/NAP  
 End 10369  
 Score 123

Seq. No. 29652  
 Gene No. 61257  
 Start 7855  
 Name OJ990429\_22.9819.C2.o1.gp  
 Start 8180  
 GI 2801282  
 Exons 8180..8486, 8597..8758

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 10369  
 Method AAT/GAP  
 End 8758  
 Score 815

Seq. No. 29652  
 Gene No. 61258  
 Start 22258  
 Name OJ990429\_22.9819.C2.o6.gs  
 Start 22258  
 GI none  
 Exons 22258..22292, 22571..22714, 23164..23227, 23395..23501,

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 27938  
 Method GENSCAN  
 End 27938  
 Score .74

23694..23754, 26473..26704, 26709..26909, 27604..27647,  
27783..27938

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61259	Strand	-
Start	29274	End	30251
Name	OJ990429_22.9819.C2.o7.gs	Method	GENSCAN
Start	29274	End	30251
GI	none	Score	.82
Exons	29274..29430, 29515..29641, 30179..30251		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61260	Strand	-
Start	31322	End	44651
Name	OJ990429_22.9819.C2.o8.gs	Method	GENSCAN
Start	31322	End	34635
GI	none	Score	.62
Exons	31322..31676, 31855..31886, 32419..32582, 32652..32745, 32796..33181, 34569..34635		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61260	Strand	-
Start	31322	End	44651
Name	OJ990429_22.9819.C2.o3.np	Method	AAT/NAP
Start	33040	End	36197
GI	6721512	Score	109
Exons	33040..33065, 34381..34697, 34725..34843, 35307..35446, 35753..36197		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61260	Strand	-
Start	31322	End	44651
Name	OJ990429_22.9819.C2.o9.gs	Method	GENSCAN
Start	35319	End	44651
GI	none	Score	.42
Exons	35319..35488, 35841..36319, 37638..37802, 40463..40588, 41879..42181, 42489..42552, 42919..42985, 43296..43514, 44565..44651		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61261	Strand	-
Start	47066	End	49200
Name	OJ990429_22.9819.C2.o4.np	Method	AAT/NAP
Start	47066	End	49067
GI	6498436	Score	458
Exons	47066..47258, 47666..47845, 48090..48214, 48309..48818, 48867..49067		

GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61261	Strand	-
Start	47066	End	49200
Name	OJ990429_22.9819.C2.o10.gs	Method	GENSCAN
Start	47190	End	49200
GI	none	Score	.67
Exons	47190..47383, 47666..47816, 48090..48278, 48688..48815,		

48867..49200

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61262	Strand	-
Start	49141	End	51640
Name	OJ990429_22.9819.C2.o5.np	Method	AAT/NAP
Start	49141	End	51640
GI	4689454	Score	148
Exons	49141..49478, 51596..51640		
GI Descrip.	(AC006267) putative polyprotein [Arabidopsis thaliana]		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61263	Strand	-
Start	58862	End	59482
Name	OJ990429_22.9819.C2.o12.gs	Method	GENSCAN
Start	58862	End	59482
GI	none	Score	.44
Exons	58862..59482		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61264	Strand	-
Start	62882	End	67347
Name	OJ990429_22.9819.C2.o7.np	Method	AAT/NAP
Start	62859	End	67017
GI	6466937	Score	2275
Exons	62859..67017		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61264	Strand	-
Start	62882	End	67347
Name	OJ990429_22.9819.C2.o14.gs	Method	GENSCAN
Start	62882	End	67347
GI	none	Score	.87
Exons	62882..65887, 65933..66480, 66579..67347		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o13.tm	Method	TBLASTX:Maize
Start	24739	End	25504
GI	none	Score	50
Exons	24739..24813, 24748..24795, 24854..25012, 24854..25009, 24862..24933, 24863..25024, 24871..24933, 24992..25117, 24993..25121, 24995..25165, 24999..25133, 25009..25128, 25009..25131, 25020..25154, 25025..25177, 25031..25150, 25052..25177, 25112..25201, 25113..25199, 25151..25321, 25203..25355, 25204..25323, 25206..25346, 25221..25340, 25240..25350, 25250..25339, 25370..25486, 25378..25482, 25379..25483, 25387..25485, 25394..25504, 25405..25479		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o2.tw	Method	TBLASTX:Wheat
Start	49159	End	49623

29533

GI	none	Score	88
Exons	49159..49323, 49163..49336, 49195..49347, 49360..49623, 49366..49560, 49400..49588		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o4.ts	Method	TBLASTX:Soybean
Start	49165	End	49563
GI	none	Score	156
Exons	49165..49323, 49315..49563		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o11.tm	Method	TBLASTX:Maize
Start	52516	End	54104
GI	none	Score	78
Exons	52516..52566, 52527..52565, 52649..52774, 52650..52775, 53960..54097, 53964..54098, 53967..54104		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o10.tm	Method	TBLASTX:Maize
Start	54105	End	56431
GI	none	Score	165
Exons	54105..54164, 54242..54436, 54254..54448, 54258..54437, 54268..54441, 54841..54975, 54844..54975, 54845..54976, 54845..54976, 55308..55421, 55309..55422, 55320..55421, 55339..55422, 55543..55647, 55548..55679, 55548..55646, 55549..55650, 55550..55651, 55980..56156, 55991..56164, 56372..56428, 56373..56429, 56375..56431		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o6.ts	Method	TBLASTX:Soybean
Start	54901	End	57061
GI	none	Score	124
Exons	54901..54981, 54902..54979, 55285..55458, 55320..55424, 55526..55651, 55540..55659, 55980..56156, 55991..56161, 55994..56158, 56374..56460, 56375..56434, 56519..56566, 56748..56894, 56753..56848, 56939..57061, 56944..57060		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o9.tm	Method	TBLASTX:Maize
Start	56431	End	57061
GI	none	Score	144
Exons	56431..56565, 56433..56564, 56748..56849, 56750..56851, 56753..56848, 56770..56856, 56939..57061, 56941..57060		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604

Name	OJ990429_22.9819.C2.o1.tm	Method	TBLASTX:Maize
Start	59481	End	65095
GI	none	Score	64
Exons	59481..59648, 64676..65095, 64694..64861, 64710..64952, 64883..64990, 64998..65093		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o3.ts	Method	TBLASTX:Soybean
Start	59481	End	65212
GI	none	Score	67
Exons	59481..59648, 59523..59651, 64877..65176, 64892..65212		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o4.tw	Method	TBLASTX:Wheat
Start	59481	End	65083
GI	none	Score	59
Exons	59481..59648, 59514..59612, 59651..59767, 59656..59766, 59673..59828, 59772..59900, 59784..59879, 64895..65083		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o6.tm	Method	TBLASTX:Maize
Start	62941	End	63331
GI	none	Score	120
Exons	62941..63111, 62942..63181, 62945..63286, 63009..63287, 63081..63287, 63308..63331		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o3.tw	Method	TBLASTX:Wheat
Start	63377	End	63958
GI	none	Score	92
Exons	63377..63511, 63575..63958, 63750..63920		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o3.tm	Method	TBLASTX:Maize
Start	63578	End	64073
GI	none	Score	87
Exons	63578..63766, 63578..64036, 63579..64073		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o5.ts	Method	TBLASTX:Soybean
Start	63806	End	64073
GI	none	Score	117
Exons	63806..64039, 63831..64073		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
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Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o8.tm  
 Start 64172  
 GI none  
 Exons 64172..64516, 64173..64520

Strand -  
 End 75604  
 Method TBLASTX:Maize  
 End 64520  
 Score 122

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o5.tw  
 Start 64433  
 GI none  
 Exons 64433..64684, 64445..64852, 64752..64853

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Wheat  
 End 64853  
 Score 63

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o7.ts  
 Start 64610  
 GI none  
 Exons 64610..64867

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Soybean  
 End 64867  
 Score 189

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o4.tm  
 Start 65168  
 GI none  
 Exons 65168..65653, 65169..65642

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Maize  
 End 65653  
 Score 205

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o1.tw  
 Start 65264  
 GI none  
 Exons 65264..65704, 65283..65609

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Wheat  
 End 65704  
 Score 151

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o12.tm  
 Start 66793  
 GI none  
 Exons 66793..67029, 66794..67021, 66811..67026

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Maize  
 End 67029  
 Score 131

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o2.ts  
 Start 70407  
 GI none  
 Exons 70407..70610, 70590..70946, 70590..70934, 70602..70931, 70623..70928, 70649..70798, 70692..70877, 70695..70943, 70764..70928, 70841..70945, 70950..71153, 70950..71147, 70953..71147, 70986..71153, 71121..71351, 71190..71345,

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Soybean  
 End 72520  
 Score 90

71352..71516, 71358..71648, 71358..71513, 71393..71602,  
71783..72172, 71810..72313, 71816..72520, 71876..72457,  
72005..72457

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o1.tc	Method	TBLASTX:Cress
Start	70587	End	72493
GI	none	Score	109
Exons	70587..70862, 70695..70940, 70737..70943, 70800..70934, 70953..71147, 70964..71146, 70971..71306, 71348..71569, 71358..71513, 71394..71516, 71670..71759, 71673..71807, 71752..71781, 71807..71953, 71810..72019, 71813..71953, 71825..71956, 71828..72169, 71966..72313, 71987..72157, 72041..72184, 72065..72385, 72131..72466, 72166..72327, 72185..72337, 72185..72313, 72203..72328, 72266..72457, 72325..72489, 72329..72493, 72329..72457, 72332..72490		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o7.tm	Method	TBLASTX:Maize
Start	70602	End	72457
GI	none	Score	130
Exons	70602..70943, 70623..70928, 70695..70910, 70701..70928, 70746..70943, 70935..71183, 70953..71147, 70953..71147, 70965..71147, 71166..71354, 71175..71351, 71187..71351, 71190..71231, 71349..71492, 71352..71516, 71352..71513, 71358..71513, 71358..71513, 71403..71516, 71489..71599, 71786..72367, 71810..72439, 71843..72457, 71978..72457, 72229..72375		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o5.tm	Method	TBLASTX:Maize
Start	72704	End	72967
GI	none	Score	340
Exons	72704..72967, 72704..72958, 72712..72966		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o1.ts	Method	TBLASTX:Soybean
Start	72713	End	73579
GI	none	Score	196
Exons	72713..73015, 72724..73008, 73022..73261, 73120..73260, 73355..73579, 73384..73491		

Seq. No.	29652	Seq. ID	OJ990429_22.9819.C2
Gene No.	61265	Strand	-
Start	75370	End	75604
Name	OJ990429_22.9819.C2.o2.tc	Method	TBLASTX:Cress
Start	72713	End	73498
GI	none	Score	267
Exons	72713..73198, 73196..73261, 73355..73498		

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o6.tw  
 Start 72881  
 GI none  
 Exons 72881..73015, 73028..73270

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Wheat  
 End 73270  
 Score 77

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o2.tm  
 Start 73135  
 GI none  
 Exons 73135..73260, 73136..73261, 73354..73569, 73355..73573, 73559..73663, 73598..73660

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method TBLASTX:Maize  
 End 73663  
 Score 185

Seq. No. 29652  
 Gene No. 61265  
 Start 75370  
 Name OJ990429\_22.9819.C2.o16.gs  
 Start 75370  
 GI none  
 Exons 75370..75450, 75557..75604

Seq. ID OJ990429\_22.9819.C2  
 Strand -  
 End 75604  
 Method GENSCAN  
 End 75604  
 Score .74

Seq. No. 29653  
 Gene No. 61266  
 Start 36  
 Name OJ990429\_22.9819.C3.o1.np  
 Start 36  
 GI 4836944  
 Exons 36..103, 193..323, 2602..2627  
 GI Descrip. (AC006085) Hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ990429\_22.9819.C3  
 Strand +  
 End 2627  
 Method AAT/NAP  
 End 2627  
 Score 97

Seq. No. 29653  
 Gene No. 61266  
 Start 36  
 Name OJ990429\_22.9819.C3.o1.gs  
 Start 230  
 GI none  
 Exons 230..314, 503..666

Seq. ID OJ990429\_22.9819.C3  
 Strand +  
 End 2627  
 Method GENSCAN  
 End 666  
 Score .67

Seq. No. 29653  
 Gene No. 61267  
 Start 3995  
 Name OJ990429\_22.9819.C3.o2.gs  
 Start 3995  
 GI none  
 Exons 3995..6793, 6929..10090

Seq. ID OJ990429\_22.9819.C3  
 Strand +  
 End 10090  
 Method GENSCAN  
 End 10090  
 Score .44

Seq. No. 29653  
 Gene No. 61267  
 Start 3995  
 Name OJ990429\_22.9819.C3.o2.np  
 Start 3995  
 GI 5922631

Seq. ID OJ990429\_22.9819.C3  
 Strand +  
 End 10090  
 Method AAT/NAP  
 End 10054  
 Score 6662



Exons 3995..4119, 4378..4625, 4860..5062, 5108..5679, 5722..5870, 5997..6920, 7527..10054

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61268	Strand	+
Start	14652	End	14805
Name	OJ990429_22.9819.C3.o1.gp	Method	AAT/GAP
Start	14652	End	14805
GI	uC-osflcyp177g01a1	Score	241
Exons	14652..14805		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61269	Strand	-
Start	10406	End	13347
Name	OJ990429_22.9819.C3.o3.gs	Method	GENSCAN
Start	10406	End	13347
GI	none	Score	.79
Exons	10406..10854, 10927..11031, 11104..11293, 11369..11556, 11676..12007, 12090..12307, 12463..13347		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61269	Strand	-
Start	10406	End	13347
Name	OJ990429_22.9819.C3.o3.np	Method	AAT/NAP
Start	10409	End	13347
GI	6691716	Score	2317
Exons	10409..10854, 10927..11039, 11190..11293, 11369..11547, 11724..12007, 12090..12265, 12463..13347		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61270	Strand	-
Start	14210	End	14531
Name	OJ990429_22.9819.C3.o4.gs	Method	GENSCAN
Start	14210	End	14531
GI	none	Score	.72
Exons	14210..14335, 14520..14531		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o5.tm	Method	TBLASTX:Maize
Start	57	End	316
GI	none	Score	81
Exons	57..107, 68..106, 190..315, 191..316		

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o7.tw  
 Start 5284  
 GI none  
 Exons 5284..5592, 5285..5686

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Wheat  
 End 5686  
 Score 297

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o1.tw  
 Start 6260  
 GI none  
 Exons 6260..6442, 6323..6436, 6481..6717, 6485..6715, 6764..7057, 6829..7053

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Wheat  
 End 7057  
 Score 150

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o3.ts  
 Start 6977  
 GI none  
 Exons 6977..7201, 7208..7342

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Soybean  
 End 7342  
 Score 138

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o8.tw  
 Start 7058  
 GI none  
 Exons 7058..7291, 7078..7290, 7079..7291, 7128..7292

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Wheat  
 End 7292  
 Score 282

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o2.tm  
 Start 7067  
 GI none  
 Exons 7067..7423, 7108..7413, 7130..7423

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Maize  
 End 7423  
 Score 375

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o2.tw  
 Start 7292  
 GI none  
 Exons 7292..7711, 7294..7710

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Wheat  
 End 7711  
 Score 468

Seq. No. 29653  
 Gene No. 61271  
 Start 15641  
 Name OJ990429\_22.9819.C3.o1.ts  
 Start 7556  
 GI none  
 Exons 7556..7987, 7603..7746, 7783..7953

Seq. ID OJ990429\_22.9819.C3  
 Strand -  
 End 19617  
 Method TBLASTX:Soybean  
 End 7987  
 Score 322

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o3.tm	Method	TBLASTX:Maize
Start	7654	End	8098
GI	none	Score	276
Exons	7654..7908, 7655..7909, 7930..8061, 7931..8074, 8072..8098		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o5.tw	Method	TBLASTX:Wheat
Start	7756	End	8185
GI	none	Score	419
Exons	7756..8028, 7757..8185		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o2.ts	Method	TBLASTX:Soybean
Start	8213	End	8601
GI	none	Score	88
Exons	8213..8317, 8221..8601, 8357..8599		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o6.tw	Method	TBLASTX:Wheat
Start	8222	End	8644
GI	none	Score	416
Exons	8222..8644, 8230..8634		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o6.tm	Method	TBLASTX:Maize
Start	8275	End	8548
GI	none	Score	126
Exons	8275..8445, 8276..8446, 8450..8548, 8482..8547		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o10.tw	Method	TBLASTX:Wheat
Start	8660	End	8959
GI	none	Score	130
Exons	8660..8794, 8834..8959		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o1.tm	Method	TBLASTX:Maize
Start	8957	End	9319
GI	none	Score	447
Exons	8957..9280, 8977..9291, 8977..9267, 9271..9318, 9272..9319		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
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Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o4.tw	Method	TBLASTX:Wheat
Start	8962	End	9349
GI	none	Score	420
Exons	8962..9273, 8963..9349, 9164..9349		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o7.tm	Method	TBLASTX:Maize
Start	9421	End	9694
GI	none	Score	95
Exons	9421..9528, 9422..9520, 9511..9585, 9515..9598, 9608..9694		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o3.tw	Method	TBLASTX:Wheat
Start	9464	End	10078
GI	none	Score	380
Exons	9464..9955, 9484..9573, 9625..9726, 9941..10078		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o4.tm	Method	TBLASTX:Maize
Start	9785	End	10039
GI	none	Score	167
Exons	9785..9958, 9907..9957, 9937..10038, 9938..10039		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o9.tw	Method	TBLASTX:Wheat
Start	12937	End	13227
GI	none	Score	216
Exons	12937..13227		

Seq. No.	29653	Seq. ID	OJ990429_22.9819.C3
Gene No.	61271	Strand	-
Start	15641	End	19617
Name	OJ990429_22.9819.C3.o5.gs	Method	GENSCAN
Start	15641	End	19617
GI	none	Score	.58
Exons	15641..15861, 17030..17133, 17908..18140, 19238..19376, 19447..19617		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61272	Strand	+
Start	323	End	397
Name	OJ990429_22.9819.C4.o1.np	Method	AAT/NAP
Start	323	End	397
GI	6630699	Score	61
Exons	323..397		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein		

[Oryza sativa]

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61273	Strand	+
Start	533	End	3168
Name	OJ990429_22.9819.C4.o2.np	Method	AAT/NAP
Start	533	End	3168
GI	6539570	Score	225
Exons	533..726, 886..956, 3141..3168		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o1.gp	Method	AAT/GAP
Start	7396	End	8364
GI	none	Score	1438
Exons	7396..7895, 8009..8086, 8170..8364		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o2.tm	Method	TBLASTX:Maize
Start	7597	End	7822
GI	none	Score	136
Exons	7597..7737, 7598..7738, 7744..7821, 7745..7822		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o3.np	Method	AAT/NAP
Start	7819	End	10220
GI	4680199	Score	583
Exons	7819..7854, 9299..9352, 9524..10220		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o3.tm	Method	TBLASTX:Maize
Start	9346	End	9541
GI	none	Score	114
Exons	9346..9534, 9356..9541		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o1.tw	Method	TBLASTX:Wheat
Start	9403	End	9803
GI	none	Score	68
Exons	9403..9534, 9559..9645, 9561..9644, 9678..9776, 9678..9803		

Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o1.tm	Method	TBLASTX:Maize
Start	9544	End	9935

GI	none	Score	52
Exons	9544..9645, 9555..9644, 9669..9935, 9679..9930		
Seq. No.	29654	Seq. ID	OJ990429_22.9819.C4
Gene No.	61274	Strand	-
Start	7396	End	10220
Name	OJ990429_22.9819.C4.o1.ts	Method	TBLASTX:Soybean
Start	9564	End	9890
GI	none	Score	104
Exons	9564..9890, 9565..9741, 9823..9882		
Seq. No.	29655	Seq. ID	OJ990429_22.9819.C5
Gene No.	61275	Strand	+
Start	1	End	1487
Name	OJ990429_22.9819.C5.o1.np	Method	AAT/NAP
Start	1	End	1487
GI	5917666	Score	77
Exons	1..32, 222..325, 975..1336, 1404..1487		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		
Seq. No.	29655	Seq. ID	OJ990429_22.9819.C5
Gene No.	61276	Strand	-
Start	120	End	1556
Name	OJ990429_22.9819.C5.o1.gs	Method	GENSCAN
Start	120	End	1556
GI	none	Score	.48
Exons	120..344, 723..783, 1045..1175, 1334..1556		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61277	Strand	+
Start	826	End	3019
Name	OJ990429_22.9819.C6.o1.gs	Method	GENSCAN
Start	826	End	1590
GI	none	Score	.5
Exons	826..890, 1080..1146, 1531..1590		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61277	Strand	+
Start	826	End	3019
Name	OJ990429_22.9819.C6.o2.np	Method	AAT/NAP
Start	958	End	3019
GI	6721561	Score	117
Exons	958..1048, 2969..3019		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61278	Strand	+
Start	4846	End	6700
Name	OJ990429_22.9819.C6.o2.gs	Method	GENSCAN
Start	4846	End	6524
GI	none	Score	.6
Exons	4846..4937, 5166..5295, 5709..6032, 6135..6524		

Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61278	Strand	+
Start	4846	End	6700
Name	OJ990429_22.9819.C6.o3.np	Method	AAT/NAP
Start	5116	End	5544
GI	4972067	Score	132
Exons	5116..5300, 5461..5544		
GI Descrip.	(AL078467) putative protei [Arabidopsis thaliana]		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61278	Strand	+
Start	4846	End	6700
Name	OJ990429_22.9819.C6.o2.gp	Method	AAT/GAP
Start	5175	End	6102
GI	2283_1.R1084	Score	339
Exons	5175..5295, 5456..5543, 6083..6102		
GI Descrip.	'4972067/emb CAB43874.1  4.0e-47 (AL078467) putative protei [Arabidopsis thaliana]'		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61278	Strand	+
Start	4846	End	6700
Name	OJ990429_22.9819.C6.o4.np	Method	AAT/NAP
Start	5715	End	5960
GI	1084404	Score	109
Exons	5715..5960		
GI Descrip.	hypothetical protein - tomato gi 667069 (L22186) ORF [Lycopersicon esculentum]		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61278	Strand	+
Start	4846	End	6700
Name	OJ990429_22.9819.C6.o5.np	Method	AAT/NAP
Start	5786	End	6700
GI	6815107	Score	313
Exons	5786..6700		
GI Descrip.	(AP001081) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10;hypothetical protein (AL035538) [Oryza sativa]		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61279	Strand	-
Start	1	End	1497
Name	OJ990429_22.9819.C6.o1.np	Method	AAT/NAP
Start	1	End	1497
GI	6815109	Score	125
Exons	1..150, 1460..1497		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61280	Strand	-
Start	1555	End	1663
Name	OJ990429_22.9819.C6.o1.gp	Method	AAT/GAP
Start	1555	End	1663
GI	uC-osflcyp088b12b1	Score	158
Exons	1555..1663		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61281	Strand	
Start	5106	End	5542
Name	OJ990429_22.9819.C6.o1.tc	Method	TBLASTX:Cress
Start	5106	End	5291
GI	none	Score	243
Exons	5106..5291, 5113..5289		

Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61281	Strand	
Start	5106	End	5542
Name	OJ990429_22.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	5110	End	5256
GI	none	Score	249
Exons	5110..5256, 5112..5255		

Seq. No.	29656	Seq. ID	OJ990429_22.9819.C6
Gene No.	61281	Strand	
Start	5106	End	5542
Name	OJ990429_22.9819.C6.o1.ts	Method	TBLASTX:Soybean
Start	5113	End	5542
GI	none	Score	249
Exons	5113..5295, 5116..5283, 5121..5297, 5121..5291, 5453..5533, 5455..5535, 5456..5542		

Seq. No.	29657	Seq. ID	OJ990429_22.9819.C7
Gene No.	61282	Strand	-
Start	1	End	727
Name	OJ990429_22.9819.C7.o1.np	Method	AAT/NAP
Start	1	End	727
GI	6815109	Score	910
Exons	1..727		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29657	Seq. ID	OJ990429_22.9819.C7
Gene No.	61282	Strand	-
Start	1	End	727
Name	OJ990429_22.9819.C7.o1.gs	Method	GENSCAN
Start	332	End	710
GI	none	Score	.62
Exons	332..564, 586..710		

Seq. No.	29658	Seq. ID	OJ990429_22.9819.C9
Gene No.	61283	Strand	+
Start	521	End	580
Name	OJ990429_22.9819.C9.o1.np	Method	AAT/NAP
Start	521	End	580
GI	2498930	Score	50
Exons	521..580		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	29658	Seq. ID	OJ990429_22.9819.C9
Gene No.	61284	Strand	-
Start	226	End	513
Name	OJ990429_22.9819.C9.o1.gs	Method	GENSCAN



Start	226	End	513
GI	none	Score	.63
Exons	226..387, 469..513		
Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61285	Strand	+
Start	1	End	7029
Name	OJ990319_10.9819.C2.o1.gp	Method	AAT/GAP
Start	1	End	330
GI	LIB3434-021-P1-K1-G6	Score	565
Exons	1..330		
GI Descrip.	'5454046/ref NP_006314.1 pSEC24  8.0e-11 secretory protein 24 >gi_3947690_emb_CAA10335.1_ (AJ131245) Sec24B protein [Homo sapiens]'		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61285	Strand	+
Start	1	End	7029
Name	OJ990319_10.9819.C2.o1.np	Method	AAT/NAP
Start	1	End	1276
GI	6642655	Score	628
Exons	1..344, 620..817, 1036..1276		
GI Descrip.	(AC012395) putative Sec24-like COPII protein [Arabidopsis thaliana]		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61285	Strand	+
Start	1	End	7029
Name	OJ990319_10.9819.C2.o2.gp	Method	AAT/GAP
Start	1022	End	1689
GI	none	Score	1200
Exons	1022..1689		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61285	Strand	+
Start	1	End	7029
Name	OJ990319_10.9819.C2.o1.gs	Method	GENSCAN
Start	1282	End	7029
GI	none	Score	.57
Exons	1282..1479, 2900..3044, 3058..3131, 3343..3526, 5924..6027, 6943..7029		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61285	Strand	+
Start	1	End	7029
Name	OJ990319_10.9819.C2.o2.np	Method	AAT/NAP
Start	3346	End	4816
GI	4512696	Score	175
Exons	3346..3529, 4797..4816		
GI Descrip.	(AC006569) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61286	Strand	-
Start	6582	End	8191
Name	OJ990319_10.9819.C2.o3.np	Method	AAT/NAP
Start	6582	End	8191
GI	4538896	Score	739

Exons 6582..6843, 6874..7004, 7048..7536, 7645..7793, 7886..8191  
 GI Descrip. (AL049482) putative protein [Arabidopsis thaliana]

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61287	Strand	-
Start	8787	End	9687
Name	OJ990319_10.9819.C2.o2.gs	Method	GENSCAN
Start	8787	End	9687
GI	none	Score	.67
Exons	8787..8855, 9288..9565, 9594..9687		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-
Start	11124	End	13374
Name	OJ990319_10.9819.C2.o1.tc	Method	TBLASTX:Cress
Start	1	End	249
GI	none	Score	246
Exons	1..246, 2..247, 59..247, 115..249, 165..248		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-
Start	11124	End	13374
Name	OJ990319_10.9819.C2.o1.tm	Method	TBLASTX:Maize
Start	2	End	1517
GI	none	Score	448
Exons	2..310, 3..311, 4..312, 12..314, 13..312, 667..834, 671..835, 672..839, 1037..1282, 1046..1246, 1047..1286, 1054..1290, 1054..1290, 1288..1335, 1307..1336, 1331..1363, 1407..1472, 1428..1517		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-
Start	11124	End	13374
Name	OJ990319_10.9819.C2.o1.ts	Method	TBLASTX:Soybean
Start	2	End	304
GI	none	Score	309
Exons	2..304, 4..297		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-
Start	11124	End	13374
Name	OJ990319_10.9819.C2.o1.tw	Method	TBLASTX:Wheat
Start	1037	End	1475
GI	none	Score	333
Exons	1037..1273, 1046..1249, 1047..1292, 1051..1305, 1051..1287, 1306..1347, 1307..1348, 1307..1345, 1431..1475		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-
Start	11124	End	13374
Name	OJ990319_10.9819.C2.o2.ts	Method	TBLASTX:Soybean
Start	1037	End	1270
GI	none	Score	244
Exons	1037..1270, 1057..1269		

Seq. No.	29659	Seq. ID	OJ990319_10.9819.C2
Gene No.	61288	Strand	-

Start 11124  
 Name OJ990319\_10.9819.C2.o2.tc  
 Start 3331  
 GI none  
 Exons 3331..3501, 3336..3494

End 13374  
 Method TBLASTX:Cress  
 End 3501  
 Score 193

Seq. No. 29659  
 Gene No. 61288  
 Start 11124  
 Name OJ990319\_10.9819.C2.o3.ts  
 Start 3331  
 GI none  
 Exons 3331..3525, 3336..3548, 3336..3524, 5923..6006

Seq. ID OJ990319\_10.9819.C2  
 Strand -  
 End 13374  
 Method TBLASTX:Soybean  
 End 6006  
 Score 242

Seq. No. 29659  
 Gene No. 61288  
 Start 11124  
 Name OJ990319\_10.9819.C2.o2.tm  
 Start 3331  
 GI none  
 Exons 3331..3528, 3336..3527

Seq. ID OJ990319\_10.9819.C2  
 Strand -  
 End 13374  
 Method TBLASTX:Maize  
 End 3528  
 Score 226

Seq. No. 29659  
 Gene No. 61288  
 Start 11124  
 Name OJ990319\_10.9819.C2.o3.gs  
 Start 11124  
 GI none  
 Exons 11124..11537, 11691..12674

Seq. ID OJ990319\_10.9819.C2  
 Strand -  
 End 13374  
 Method GENSCAN  
 End 12674  
 Score .92

Seq. No. 29659  
 Gene No. 61288  
 Start 11124  
 Name OJ990319\_10.9819.C2.o4.np  
 Start 11151  
 GI 2462734  
 Exons 11151..11537, 11776..11820

Seq. ID OJ990319\_10.9819.C2  
 Strand -  
 End 13374  
 Method AAT/NAP  
 End 11820  
 Score 219

GI Descrip. (AC002292) similar to "Mx" GTP-binding proteins [Arabidopsis thaliana]

Seq. No. 29659  
 Gene No. 61288  
 Start 11124  
 Name OJ990319\_10.9819.C2.o5.np  
 Start 11151  
 GI 2462734  
 Exons 11151..11555, 11817..12742, 13351..13374

Seq. ID OJ990319\_10.9819.C2  
 Strand -  
 End 13374  
 Method AAT/NAP  
 End 13374  
 Score 913

GI Descrip. (AC002292) similar to "Mx" GTP-binding proteins [Arabidopsis thaliana]

Seq. No. 29660  
 Gene No. 61289  
 Start 236  
 Name OJ990319\_10.9819.C4.o1.tw  
 Start 236  
 GI none  
 Exons 236..325, 353..457, 358..450, 446..511, 464..532

Seq. ID OJ990319\_10.9819.C4  
 Strand  
 End 532  
 Method TBLASTX:Wheat  
 End 532  
 Score 105

Seq. No.	29661	Seq. ID	OJ990319_10.9819.C5
Gene No.	61290	Strand	-
Start	89	End	768
Name	OJ990319_10.9819.C5.o1.gs	Method	GENSCAN
Start	89	End	728
GI	none	Score	.43
Exons	89..728		

Seq. No.	29661	Seq. ID	OJ990319_10.9819.C5
Gene No.	61290	Strand	-
Start	89	End	768
Name	OJ990319_10.9819.C5.o1.tw	Method	TBLASTX:Wheat
Start	253	End	768
GI	none	Score	56
Exons	253..354, 385..444, 385..486, 463..651, 479..652, 670..768		

Seq. No.	29661	Seq. ID	OJ990319_10.9819.C5
Gene No.	61290	Strand	-
Start	89	End	768
Name	OJ990319_10.9819.C5.o1.tm	Method	TBLASTX:Maize
Start	487	End	768
GI	none	Score	94
Exons	487..594, 488..595, 607..768, 613..717		

Seq. No.	29662	Seq. ID	OJ990319_10.9819.C8
Gene No.	61291	Strand	+
Start	3303	End	5649
Name	OJ990319_10.9819.C8.o2.np	Method	AAT/NAP
Start	3303	End	5649
GI	4680203	Score	361
Exons	3303..3328, 4626..5649		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	29662	Seq. ID	OJ990319_10.9819.C8
Gene No.	61292	Strand	-
Start	1	End	273
Name	OJ990319_10.9819.C8.o1.np	Method	AAT/NAP
Start	1	End	273
GI	6630735	Score	125
Exons	1..273		
GI Descrip.	(AL132958) glucosyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	29662	Seq. ID	OJ990319_10.9819.C8
Gene No.	61293	Strand	-
Start	5077	End	5530
Name	OJ990319_10.9819.C8.o1.ts	Method	TBLASTX:Soybean
Start	5077	End	5360
GI	none	Score	245
Exons	5077..5355, 5100..5360		

Seq. No.	29662	Seq. ID	OJ990319_10.9819.C8
Gene No.	61293	Strand	-
Start	5077	End	5530
Name	OJ990319_10.9819.C8.o1.tw	Method	TBLASTX:Wheat
Start	5185	End	5530

GI	none	Score	171
Exons	5185..5409, 5187..5381, 5400..5504, 5404..5523, 5410..5529, 5429..5530		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61294	Strand	+
Start	1	End	2558
Name	OJ990319_10.9819.C9.o1.np	Method	AAT/NAP
Start	1	End	2558
GI	100488	Score	555
Exons	1..392, 459..866, 2266..2558		
GI Descrip.	TNP2 protein - garden snapdragon		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61295	Strand	+
Start	2693	End	2773
Name	OJ990319_10.9819.C9.o2.np	Method	AAT/NAP
Start	2693	End	2773
GI	6630699	Score	80
Exons	2693..2773		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61296	Strand	+
Start	5210	End	5716
Name	OJ990319_10.9819.C9.o4.np	Method	AAT/NAP
Start	5210	End	5716
GI	6630699	Score	82
Exons	5210..5297, 5548..5716		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61297	Strand	-
Start	2909	End	5578
Name	OJ990319_10.9819.C9.o2.gs	Method	GENSCAN
Start	2909	End	5578
GI	none	Score	.47
Exons	2909..3116, 3543..3680, 4454..4538, 4778..4901, 5206..5514, 5516..5578		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61297	Strand	-
Start	2909	End	5578
Name	OJ990319_10.9819.C9.o3.np	Method	AAT/NAP
Start	2912	End	5578
GI	5922620	Score	497
Exons	2912..3042, 4454..4538, 4575..4901, 5012..5045, 5356..5498, 5540..5578		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61298	Strand	-
Start	5855	End	7110
Name	OJ990319_10.9819.C9.o1.tm	Method	TBLASTX:Maize
Start	2240	End	2567
GI	none	Score	134
Exons	2240..2485, 2261..2563, 2262..2567		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61298	Strand	-
Start	5855	End	7110
Name	OJ990319_10.9819.C9.o1.tw	Method	TBLASTX:Wheat
Start	2262	End	7110
GI	none	Score	351
Exons	2262..2690, 2453..2659, 6387..6617, 6638..6820, 6639..6815, 6814..6903, 6931..7035, 6936..7028, 7024..7089, 7042..7110		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61298	Strand	-
Start	5855	End	7110
Name	OJ990319_10.9819.C9.o5.np	Method	AAT/NAP
Start	5855	End	5967
GI	5922620	Score	82
Exons	5855..5967		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29663	Seq. ID	OJ990319_10.9819.C9
Gene No.	61298	Strand	-
Start	5855	End	7110
Name	OJ990319_10.9819.C9.o2.tm	Method	TBLASTX:Maize
Start	6513	End	6803
GI	none	Score	156
Exons	6513..6683, 6530..6682, 6575..6700, 6651..6794, 6687..6803, 6716..6802		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61299	Strand	+
Start	69	End	3196
Name	OJ990319_10.9819.C10.o1.gs	Method	GENSCAN
Start	69	End	3196
GI	none	Score	.75
Exons	69..203, 281..381, 955..1087, 1504..1755, 1834..1944, 3133..3196		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o2.tm	Method	TBLASTX:Maize
Start	4228	End	4468
GI	none	Score	98
Exons	4228..4329, 4229..4339, 4230..4328, 4377..4466, 4378..4467, 4379..4468, 4379..4468		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o1.np	Method	AAT/NAP
Start	4342	End	5703
GI	6630696	Score	1587
Exons	4342..5703		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol. polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o1.tw	Method	TBLASTX:Wheat
Start	4478	End	4953
GI	none	Score	389
Exons	4478..4864, 4480..4863, 4879..4953, 4880..4948, 4887..4952		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o1.ts	Method	TBLASTX:Soybean
Start	4591	End	4965
GI	none	Score	107
Exons	4591..4815, 4834..4965		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o1.tm	Method	TBLASTX:Maize
Start	4809	End	5157
GI	none	Score	131
Exons	4809..5060, 4810..5157, 4811..5143		

Seq. No.	29664	Seq. ID	OJ990319_10.9819.C10
Gene No.	61300	Strand	-
Start	4342	End	5703
Name	OJ990319_10.9819.C10.o2.ts	Method	TBLASTX:Soybean
Start	4969	End	5319
GI	none	Score	68
Exons	4969..5139, 4969..5148, 4976..5146, 5149..5319		

Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o1.np	Method	AAT/NAP
Start	1	End	2499
GI	6630696	Score	3823
Exons	1..2499		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol. polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499

Name	OJ990319_10.9819.C11.o2.tw	Method	TBLASTX:Wheat
Start	62	End	541
GI	none	Score	73
Exons	62..202, 197..541, 357..524		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o2.tm	Method	TBLASTX:Maize
Start	77	End	542
GI	none	Score	63
Exons	77..541, 180..290, 326..406, 411..542		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o1.ts	Method	TBLASTX:Soybean
Start	227	End	628
GI	5509260	Score	42
Exons	227..628, 357..389, 420..581		
GI Descrip.	-		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o1.tc	Method	TBLASTX:Cress
Start	323	End	583
GI	none	Score	108
Exons	323..583, 411..581		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o1.tw	Method	TBLASTX:Wheat
Start	596	End	1350
GI	none	Score	649
Exons	596..643, 643..1350, 644..1342		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o2.ts	Method	TBLASTX:Soybean
Start	1000	End	1398
GI	none	Score	88
Exons	1000..1173, 1177..1398, 1184..1396		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o3.tm	Method	TBLASTX:Maize
Start	1186	End	1618
GI	none	Score	65
Exons	1186..1512, 1193..1369, 1508..1618		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499



Name	OJ990319_10.9819.C11.o3.tw	Method	TBLASTX:Wheat
Start	1351	End	1538
GI	none	Score	191
Exons	1351..1512, 1352..1513, 1377..1514, 1497..1538		
Seq. No.	29665	Seq. ID	OJ990319_10.9819.C11
Gene No.	61301	Strand	-
Start	1	End	2499
Name	OJ990319_10.9819.C11.o1.tm	Method	TBLASTX:Maize
Start	1734	End	2146
GI	none	Score	44
Exons	1734..1793, 1736..1801, 1833..2126, 1838..2146, 1850..2122, 1851..2123, 1858..2127		
Seq. No.	29666	Seq. ID	OJ990319_10.9819.C12
Gene No.	61302	Strand	-
Start	103	End	1279
Name	OJ990319_10.9819.C12.o1.gs	Method	GENSCAN
Start	103	End	1279
GI	none	Score	.72
Exons	103..247, 353..526, 1065..1279		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61303	Strand	-
Start	3565	End	3903
Name	OJ990319_10.9819.C13.o1.tw	Method	TBLASTX:Wheat
Start	3565	End	3903
GI	none	Score	322
Exons	3565..3903, 3639..3902		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	-
Start	4181	End	5914
Name	OJ990319_10.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	4181	End	5148
GI	none	Score	431
Exons	4181..4747, 4204..4572, 4436..4591, 4738..4800, 4783..5148		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	-
Start	4181	End	5914
Name	OJ990319_10.9819.C13.o4.tw	Method	TBLASTX:Wheat
Start	4232	End	4510
GI	none	Score	138
Exons	4232..4348, 4255..4506, 4330..4407, 4406..4510		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	-
Start	4181	End	5914
Name	OJ990319_10.9819.C13.o1.ts	Method	TBLASTX:Soybean
Start	4866	End	5277
GI	none	Score	181
Exons	4866..5075, 4876..5103, 5092..5277		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	-
Start	4181	End	5914

Name	OJ990319_10.9819.C13.o2.tw	Method	TBLASTX:Wheat
Start	4900	End	5451
GI	none	Score	283
Exons	4900..5262, 5047..5124, 5109..5204, 5269..5307, 5335..5451		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	
Start	4181	End	5914
Name	OJ990319_10.9819.C13.o2.tm	Method	TBLASTX:Maize
Start	5349	End	5821
GI	none	Score	278
Exons	5349..5567, 5350..5721, 5682..5717, 5761..5820, 5765..5821		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61304	Strand	
Start	4181	End	5914
Name	OJ990319_10.9819.C13.o3.tw	Method	TBLASTX:Wheat
Start	5545	End	5914
GI	none	Score	155
Exons	5545..5763, 5765..5914		
Seq. No.	29667	Seq. ID	OJ990319_10.9819.C13
Gene No.	61305	Strand	
Start	5993	End	6283
Name	OJ990319_10.9819.C13.o3.tm	Method	TBLASTX:Maize
Start	5993	End	6283
GI	none	Score	167
Exons	5993..6181, 5998..6105, 6035..6187, 6188..6283		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61306	Strand	+
Start	6889	End	8789
Name	OJ990319_10.9819.C14.o1.gp	Method	AAT/GAP
Start	6711	End	7093
GI	uC-osflcyp033a04b1	Score	676
Exons	6711..7093		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61306	Strand	+
Start	6889	End	8789
Name	OJ990319_10.9819.C14.o2.gs	Method	GENSCAN
Start	6889	End	8789
GI	none	Score	.89
Exons	6889..6960, 7980..8789		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61307	Strand	+
Start	9039	End	13556
Name	OJ990319_10.9819.C14.o1.np	Method	AAT/NAP
Start	9036	End	13553
GI	4680179	Score	5389
Exons	9036..10119, 10153..13553		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14

Gene No.	61307	Strand	+
Start	9039	End	13556
Name	OJ990319_10.9819.C14.o3.gs	Method	GENSCAN
Start	9039	End	13556
GI	none	Score	.65
Exons	9039..9648, 9719..13128, 13161..13556		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61308	Strand	-
Start	3615	End	5818
Name	OJ990319_10.9819.C14.o1.gs	Method	GENSCAN
Start	3615	End	5818
GI	none	Score	.6
Exons	3615..3927, 4247..4413, 4688..4769, 5050..5301, 5514..5818		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61309	Strand	-
Start	9270	End	9816
Name	OJ990319_10.9819.C14.o7.tw	Method	TBLASTX:Wheat
Start	9270	End	9632
GI	none	Score	292
Exons	9270..9632, 9272..9631		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61309	Strand	-
Start	9270	End	9816
Name	OJ990319_10.9819.C14.o6.tm	Method	TBLASTX:Maize
Start	9513	End	9816
GI	none	Score	111
Exons	9513..9644, 9527..9643, 9640..9816		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61310	Strand	-
Start	10144	End	10617
Name	OJ990319_10.9819.C14.o7.tm	Method	TBLASTX:Maize
Start	10144	End	10497
GI	none	Score	188
Exons	10144..10497		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61310	Strand	-
Start	10144	End	10617
Name	OJ990319_10.9819.C14.o8.tw	Method	TBLASTX:Wheat
Start	10180	End	10617
GI	none	Score	164
Exons	10180..10389, 10236..10388, 10434..10547, 10435..10548, 10576..10617		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61311	Strand	-
Start	10713	End	11586
Name	OJ990319_10.9819.C14.o4.tw	Method	TBLASTX:Wheat
Start	10713	End	11199
GI	none	Score	52
Exons	10713..11156, 10717..10767, 10822..11199		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
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Gene No.	61311	Strand	
Start	10713	End	11586
Name	OJ990319_10.9819.C14.o5.tm	Method	TBLASTX:Maize
Start	10728	End	11018
GI	none	Score	276
Exons	10728..11018, 10729..11016		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61311	Strand	
Start	10713	End	11586
Name	OJ990319_10.9819.C14.o3.tm	Method	TBLASTX:Maize
Start	11086	End	11586
GI	none	Score	166
Exons	11086..11265, 11094..11213, 11272..11586, 11337..11465, 11493..11543		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61311	Strand	
Start	10713	End	11586
Name	OJ990319_10.9819.C14.o1.ts	Method	TBLASTX:Soybean
Start	11140	End	11535
GI	none	Score	57
Exons	11140..11172, 11142..11171, 11176..11535, 11178..11213, 11244..11534		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61311	Strand	
Start	10713	End	11586
Name	OJ990319_10.9819.C14.o5.tw	Method	TBLASTX:Wheat
Start	11248	End	11550
GI	none	Score	382
Exons	11248..11550, 11250..11534		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61312	Strand	
Start	11551	End	11985
Name	OJ990319_10.9819.C14.o3.tw	Method	TBLASTX:Wheat
Start	11551	End	11973
GI	none	Score	598
Exons	11551..11973, 11583..11972		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61312	Strand	
Start	11551	End	11985
Name	OJ990319_10.9819.C14.o3.ts	Method	TBLASTX:Soybean
Start	11557	End	11802
GI	none	Score	207
Exons	11557..11802, 11574..11801		
Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61312	Strand	
Start	11551	End	11985
Name	OJ990319_10.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	11622	End	11985
GI	none	Score	482
Exons	11622..11972, 11623..11976, 11623..11985		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o2.tw	Method	TBLASTX:Wheat
Start	11976	End	12543
GI	none	Score	641
Exons	11976..12542, 12010..12543		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o1.tc	Method	TBLASTX:Cress
Start	12253	End	12567
GI	none	Score	86
Exons	12253..12423, 12424..12567, 12426..12566		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o2.ts	Method	TBLASTX:Soybean
Start	12331	End	12591
GI	none	Score	296
Exons	12331..12591, 12336..12590		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o4.tm	Method	TBLASTX:Maize
Start	12389	End	12681
GI	none	Score	89
Exons	12389..12550, 12390..12677, 12391..12681		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o1.tw	Method	TBLASTX:Wheat
Start	12550	End	13161
GI	none	Score	665
Exons	12550..13143, 12606..13064, 12643..13161		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	12729	End	13328
GI	none	Score	104
Exons	12729..12878, 12729..12872, 12730..12891, 12733..12885, 12889..13167, 12891..13169, 13127..13327, 13137..13313, 13146..13328		

Seq. No.	29668	Seq. ID	OJ990319_10.9819.C14
Gene No.	61313	Strand	
Start	11976	End	13508
Name	OJ990319_10.9819.C14.o6.tw	Method	TBLASTX:Wheat
Start	13164	End	13508
GI	none	Score	330
Exons	13164..13508, 13166..13444, 13179..13487		

Seq. No.	29669	Seq. ID	OJ990319_10.9819.C15
Gene No.	61314	Strand	+
Start	655	End	1118
Name	OJ990319_10.9819.C15.o1.gs	Method	GENSCAN
Start	655	End	1118
GI	none	Score	.46
Exons	655..736, 1033..1118		

Seq. No.	29669	Seq. ID	OJ990319_10.9819.C15
Gene No.	61315	Strand	-
Start	1	End	2664
Name	OJ990319_10.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	2664
GI	5852180	Score	383
Exons	1..59, 266..630, 664..803, 2644..2664		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61316	Strand	+
Start	415	End	796
Name	OJ990319_10.9819.C16.o1.gp	Method	AAT/GAP
Start	415	End	796
GI	uC-osflcyp033a04b1	Score	687
Exons	415..796		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.gs	Method	GENSCAN
Start	37	End	8092
GI	none	Score	.43
Exons	37..88, 395..548, 742..823, 1463..1596, 2115..2329, 2348..2471, 2598..2972, 3063..3186, 3212..3338, 3996..4327, 5028..6063, 6432..7164, 7279..8092		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.np	Method	AAT/NAP
Start	348	End	1437
GI	4680186	Score	384
Exons	348..548, 1386..1437		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o3.ts	Method	TBLASTX:Soybean
Start	5132	End	5344
GI	none	Score	90
Exons	5132..5344, 5186..5344		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-

Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.tw	Method	TBLASTX:Wheat
Start	5192	End	6334
GI	none	Score	64
Exons	5192..5293, 5199..5291, 5324..5383, 5324..5425, 5402..5590, 5418..5600, 5609..6334, 5793..6080, 6144..6194		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o3.tm	Method	TBLASTX:Maize
Start	5426	End	5716
GI	none	Score	94
Exons	5426..5533, 5427..5534, 5546..5716, 5552..5668		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.tc	Method	TBLASTX:Cress
Start	5609	End	6034
GI	none	Score	106
Exons	5609..6034, 5793..6026		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o3.np	Method	AAT/NAP
Start	5846	End	8817
GI	5911167	Score	1208
Exons	5846..7830, 8709..8817		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	5966	End	6349
GI	none	Score	278
Exons	5966..6280, 5967..6281, 6281..6349		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o2.tm	Method	TBLASTX:Maize
Start	6853	End	7338
GI	none	Score	74
Exons	6853..6942, 6857..6946, 6946..6993, 6994..7041, 7035..7070, 7138..7227, 7139..7231, 7234..7338, 7235..7330		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o3.tw	Method	TBLASTX:Wheat
Start	6904	End	7239
GI	none	Score	57
Exons	6904..6942, 6952..7050, 6968..7039, 7096..7194, 7097..7192, 7198..7239		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o2.tc	Method	TBLASTX:Cress
Start	7144	End	7476
GI	none	Score	84
Exons	7144..7476, 7199..7306, 7340..7390		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o2.ts	Method	TBLASTX:Soybean
Start	7225	End	7500
GI	none	Score	124
Exons	7225..7500, 7226..7465		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o2.tw	Method	TBLASTX:Wheat
Start	7240	End	7833
GI	none	Score	69
Exons	7240..7365, 7241..7348, 7363..7482, 7369..7485, 7540..7833, 7541..7831		

Seq. No.	29670	Seq. ID	OJ990319_10.9819.C16
Gene No.	61317	Strand	-
Start	37	End	8817
Name	OJ990319_10.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	7540	End	7815
GI	none	Score	101
Exons	7540..7815, 7550..7798		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.np	Method	AAT/NAP
Start	1	End	2769
GI	6642655	Score	1735
Exons	1..19, 212..563, 655..782, 1189..1345, 1424..1573, 1650..1881, 1971..2174, 2288..2395, 2549..2769		
GI Descrip.	(AC012395) putative Sec24-like COPII protein [Arabidopsis thaliana]		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.gp	Method	AAT/GAP
Start	221	End	778
GI	LIB3434-021-P1-K1-G6	Score	780
Exons	221..563, 655..778		
GI Descrip.	'5454046/ref NP_006314.1 pSEC24  8.0e-11 secretory protein 24 >gi_3947690_emb_CAA10335.1_ (AJ131245) Sec24B protein [Homo sapiens]'		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
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Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.tm	Method	TBLASTX:Maize
Start	237	End	2662
GI	none	Score	335
Exons	237..560, 239..589, 239..559, 241..579, 656..781, 657..782, 1184..1336, 1185..1346, 1186..1347, 1190..1348, 1398..1580, 1404..1580, 1408..1581, 1605..1880, 1615..1896, 1649..1882, 1650..1883, 1971..2144, 1972..2169, 1972..2169, 1973..2170, 1973..2170, 2288..2401, 2288..2398, 2540..2614, 2618..2662		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.gs	Method	GENSCAN
Start	241	End	2699
GI	none	Score	.86
Exons	241..563, 655..782, 1306..1345, 1424..1573, 1650..1881, 1971..2174, 2288..2395, 2549..2699		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.ts	Method	TBLASTX:Soybean
Start	247	End	2324
GI	none	Score	201
Exons	247..579, 254..589, 656..781, 660..782, 1181..1339, 1185..1346, 1186..1347, 1404..1580, 1410..1568, 1415..1603, 1613..1882, 1615..1896, 1649..1882, 1971..2081, 1971..2081, 1972..2103, 2089..2175, 2148..2177, 2288..2323, 2295..2324		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.tc	Method	TBLASTX:Cress
Start	302	End	1236
GI	none	Score	64
Exons	302..436, 303..386, 304..564, 305..565, 656..799, 660..782, 673..783, 1185..1235, 1186..1236		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o1.tw	Method	TBLASTX:Wheat
Start	680	End	2078
GI	none	Score	44
Exons	680..781, 1185..1346, 1413..1580, 1591..1785, 1597..1737, 1789..1872, 1823..1876, 1823..1882, 1971..2078		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o2.tc	Method	TBLASTX:Cress
Start	1759	End	2058
GI	none	Score	106
Exons	1759..1896, 1772..1873, 1782..1883, 1971..2039, 1971..2057, 1972..2058		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o2.gp	Method	AAT/GAP
Start	1847	End	2421
GI	426130	Score	627
Exons	1847..1881, 1971..2174, 2288..2421		
GI Descrip.	5454046/ref NP_006314.1 pSEC24  7.0e-19 secretory protein 24 >gi_3947690_emb_CAA10335.1_ (AJ131245) Sec24B protein [Homo sapiens]		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o3.tc	Method	TBLASTX:Cress
Start	2322	End	2708
GI	none	Score	57
Exons	2322..2396, 2324..2407, 2539..2703, 2540..2686, 2540..2707, 2625..2708		

Seq. No.	29671	Seq. ID	OJ990319_10.9819.C17
Gene No.	61318	Strand	-
Start	1	End	2769
Name	OJ990319_10.9819.C17.o2.ts	Method	TBLASTX:Soybean
Start	2327	End	2707
GI	none	Score	86
Exons	2327..2398, 2328..2396, 2540..2707, 2549..2686		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61319	Strand	+
Start	524	End	546
Name	OJ990319_10.9819.C18.o1.gs	Method	GENSCAN
Start	524	End	546
GI	none	Score	.86
Exons	524..546		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61320	Strand	-
Start	1	End	7880
Name	OJ990319_10.9819.C18.o1.np	Method	AAT/NAP
Start	1	End	3176
GI	6642655	Score	595
Exons	1..46, 1918..2050, 2136..2456, 2487..3176		
GI Descrip.	(AC012395) putative Sec24-like COPII protein [Arabidopsis thaliana]		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61320	Strand	-
Start	1	End	7880
Name	OJ990319_10.9819.C18.o2.gs	Method	GENSCAN
Start	1853	End	7880
GI	none	Score	.42
Exons	1853..2087, 2245..2410, 2426..2554, 2601..2792, 2861..2954, 2980..3198, 3338..3449, 4636..4800, 4907..5070, 6725..6800, 7649..7732, 7807..7880		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61320	Strand	-
Start	1	End	7880
Name	OJ990319_10.9819.C18.o1.ts	Method	TBLASTX:Soybean
Start	1909	End	2402
GI	none	Score	123
Exons	1909..2028, 1919..2056, 1932..2054, 2132..2224, 2134..2394, 2135..2314, 2136..2402		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61320	Strand	-
Start	1	End	7880
Name	OJ990319_10.9819.C18.o1.tc	Method	TBLASTX:Cress
Start	1915	End	2259
GI	none	Score	109
Exons	1915..2034, 1919..2056, 1941..2054, 2134..2196, 2136..2201, 2159..2209, 2233..2259		

Seq. No.	29672	Seq. ID	OJ990319_10.9819.C18
Gene No.	61320	Strand	-
Start	1	End	7880
Name	OJ990319_10.9819.C18.o1.tm	Method	TBLASTX:Maize
Start	2262	End	2885
GI	none	Score	163
Exons	2262..2453, 2262..2453, 2458..2601, 2461..2532, 2571..2603, 2572..2649, 2622..2747, 2623..2748, 2631..2780, 2658..2714, 2667..2813, 2697..2837, 2721..2855, 2763..2885, 2769..2792, 2802..2825, 2835..2885, 2844..2885		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61321	Strand	+
Start	1192	End	4686
Name	OJ990319_10.9819.C19.o1.np	Method	AAT/NAP
Start	1192	End	3472
GI	6553882	Score	466
Exons	1192..1269, 2374..2590, 2825..3472		
GI Descrip.	(AC012563) unknown protein [Arabidopsis thaliana]		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61321	Strand	+
Start	1192	End	4686
Name	OJ990319_10.9819.C19.o2.gs	Method	GENSCAN
Start	2361	End	4686
GI	none	Score	.43
Exons	2361..3427, 4369..4525, 4555..4686		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61322	Strand	+
Start	13143	End	17233
Name	OJ990319_10.9819.C19.o4.gs	Method	GENSCAN
Start	13143	End	16063
GI	none	Score	.62
Exons	13143..13395, 13770..13946, 14122..14252, 14356..14517, 15204..15314, 16010..16063		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61322	Strand	+

Start	13143	End	17233
Name	OJ990319_10.9819.C19.o3.np	Method	AAT/NAP
Start	13197	End	15426
GI	4455316	Score	382
Exons	13197..13420, 13770..13953, 14129..14252, 14356..14517, 15204..15426		

GI Descrip. (AL035528) putative protein [Arabidopsis thaliana]

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61322	Strand	+
Start	13143	End	17233
Name	OJ990319_10.9819.C19.o3.gp	Method	AAT/GAP
Start	15380	End	17233
GI	none	Score	778
Exons	15380..15537, 16957..17233		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61323	Strand	+
Start	30318	End	34979
Name	OJ990319_10.9819.C19.o5.np	Method	AAT/NAP
Start	30318	End	34979
GI	6069646	Score	557
Exons	30318..30334, 34544..34979		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61324	Strand	-
Start	1072	End	1572
Name	OJ990319_10.9819.C19.o1.gs	Method	GENSCAN
Start	1072	End	1572
GI	none	Score	.52
Exons	1072..1316, 1437..1572		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61325	Strand	-
Start	5057	End	11561
Name	OJ990319_10.9819.C19.o3.gs	Method	GENSCAN
Start	5057	End	11561
GI	none	Score	.68
Exons	5057..5200, 5563..5766, 6084..6296, 6933..7883, 8016..8426, 8829..8902, 9021..9153, 9538..9626, 11368..11480, 11515..11561		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61325	Strand	-
Start	5057	End	11561
Name	OJ990319_10.9819.C19.o2.np	Method	AAT/NAP
Start	5602	End	7196
GI	4204265	Score	545
Exons	5602..5766, 6084..6296, 6933..7196		
GI Descrip.	(AC005223) 45643 [Arabidopsis thaliana]		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61325	Strand	-

Start 5057  
 Name OJ990319\_10.9819.C19.o1.gp  
 Start 7462  
 GI 4878421  
 Exons 7462..7796

End 11561  
 Method AAT/GAP  
 End 7796  
 Score 615

Seq. No. 29673  
 Gene No. 61325  
 Start 5057  
 Name OJ990319\_10.9819.C19.o2.gp  
 Start 8055  
 GI 2443107  
 Exons 8055..8426, 8829..8892

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 11561  
 Method AAT/GAP  
 End 8892  
 Score 816

Seq. No. 29673  
 Gene No. 61326  
 Start 21509  
 Name OJ990319\_10.9819.C19.o4.np  
 Start 21100  
 GI 5001599  
 Exons 21100..21634

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 25039  
 Method AAT/NAP  
 End 21634  
 Score 316

GI Descrip. (AF092120) ATP synthase beta subunit [Hibbertia volubilis]

Seq. No. 29673  
 Gene No. 61326  
 Start 21509  
 Name OJ990319\_10.9819.C19.o5.gs  
 Start 21509  
 GI none  
 Exons 21509..21636, 24805..25039

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 25039  
 Method GENSCAN  
 End 25039  
 Score .49

Seq. No. 29673  
 Gene No. 61327  
 Start 31979  
 Name OJ990319\_10.9819.C19.o1.tm  
 Start 2315  
 GI none  
 Exons 2315..2344, 2316..2345, 2345..2656, 2352..2654, 2353..2658, 2353..2661, 2354..2659, 2660..2746, 2662..2745, 2666..2752

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 35189  
 Method TBLASTX:Maize  
 End 2752  
 Score 36

Seq. No. 29673  
 Gene No. 61327  
 Start 31979  
 Name OJ990319\_10.9819.C19.o1.ts  
 Start 2357  
 GI none  
 Exons 2357..2566, 2370..2588, 2841..3149, 2846..3106, 2890..3138

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 35189  
 Method TBLASTX:Soybean  
 End 3149  
 Score 303

Seq. No. 29673  
 Gene No. 61327  
 Start 31979  
 Name OJ990319\_10.9819.C19.o1.tc  
 Start 2385  
 GI none  
 Exons 2385..2546, 2417..2551, 2838..3140, 2846..3106

Seq. ID OJ990319\_10.9819.C19  
 Strand -  
 End 35189  
 Method TBLASTX:Cress  
 End 3140  
 Score 180

Seq. No. 29673

Seq. ID OJ990319\_10.9819.C19

Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o3.tm	Method	TBLASTX:Maize
Start	2886	End	3176
GI	none	Score	303
Exons	2886..3176, 2898..3149		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o5.tm	Method	TBLASTX:Maize
Start	3182	End	3451
GI	none	Score	146
Exons	3182..3340, 3183..3341, 3184..3219, 3185..3340, 3280..3342, 3387..3446, 3388..3450, 3389..3451		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o1.tw	Method	TBLASTX:Wheat
Start	5647	End	6302
GI	none	Score	88
Exons	5647..5766, 6081..6302, 6084..6296, 6091..6297		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o3.tc	Method	TBLASTX:Cress
Start	5647	End	7181
GI	none	Score	209
Exons	5647..5766, 6081..6302, 6082..6297, 6925..6954, 6927..6974, 6977..7135, 6984..7151, 6987..7181		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o3.ts	Method	TBLASTX:Soybean
Start	5647	End	7181
GI	none	Score	206
Exons	5647..5751, 6081..6302, 6082..6297, 6161..6304, 6927..6974, 6928..6954, 6984..7181, 6988..7176		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o7.tm	Method	TBLASTX:Maize
Start	5662	End	6214
GI	none	Score	86
Exons	5662..5766, 6078..6212, 6081..6212, 6082..6213, 6082..6213, 6083..6214		
Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o2.tm	Method	TBLASTX:Maize
Start	6214	End	7270
GI	none	Score	114

Exons 6214..6297, 6216..6302, 6221..6298, 6927..6977, 6928..6975, 6975..7268, 6977..7270, 6987..7256

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o2.ts	Method	TBLASTX:Soybean
Start	21163	End	21623
GI	none	Score	90
Exons	21163..21186, 21173..21307, 21174..21305, 21265..21501, 21348..21521, 21512..21622, 21513..21623		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o2.tc	Method	TBLASTX:Cress
Start	21173	End	21623
GI	none	Score	77
Exons	21173..21307, 21174..21305, 21265..21501, 21348..21521, 21356..21502, 21512..21622, 21513..21623		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o4.tm	Method	TBLASTX:Maize
Start	21273	End	21622
GI	none	Score	43
Exons	21273..21305, 21281..21307, 21305..21355, 21337..21501, 21350..21499, 21510..21620, 21512..21622, 21512..21622		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o6.gs	Method	GENSCAN
Start	31979	End	35189
GI	none	Score	.59
Exons	31979..32106, 34793..35189		

Seq. No.	29673	Seq. ID	OJ990319_10.9819.C19
Gene No.	61327	Strand	-
Start	31979	End	35189
Name	OJ990319_10.9819.C19.o6.tm	Method	TBLASTX:Maize
Start	34541	End	34968
GI	none	Score	151
Exons	34541..34711, 34552..34701, 34756..34968		

Seq. No.	29674	Seq. ID	OJ990319_10.9819.C20
Gene No.	61328	Strand	+
Start	1	End	480
Name	OJ990319_10.9819.C20.o1.np	Method	AAT/NAP
Start	1	End	480
GI	5852178	Score	124
Exons	1..230, 280..480		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	29674	Seq. ID	OJ990319_10.9819.C20
Gene No.	61329	Strand	-

Start 109  
 Name OJ990319\_10.9819.C20.o1.gs  
 Start 109  
 GI none  
 Exons 109..519

End 519  
 Method GENSCAN  
 End 519  
 Score .94

Seq. No. 29675  
 Gene No. 61330  
 Start 1  
 Name OJ990319\_10.9819.C21.o1.np  
 Start 1  
 GI 5042447  
 Exons 1..700  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. ID OJ990319\_10.9819.C21  
 Strand +  
 End 700  
 Method AAT/NAP  
 End 700  
 Score 213

Seq. No. 29676  
 Gene No. 61331  
 Start 5673  
 Name OJ990319\_10.9819.C22.o2.gs  
 Start 5673  
 GI none  
 Exons 5673..5687, 7103..7690

Seq. ID OJ990319\_10.9819.C22  
 Strand +  
 End 7690  
 Method GENSCAN  
 End 7690  
 Score .44

Seq. No. 29676  
 Gene No. 61332  
 Start 1  
 Name OJ990319\_10.9819.C22.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..2805, 2833..3862  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ990319\_10.9819.C22  
 Strand -  
 End 3862  
 Method AAT/NAP  
 End 3862  
 Score 4765

Seq. No. 29676  
 Gene No. 61333  
 Start 4088  
 Name OJ990319\_10.9819.C22.o2.np  
 Start 4088  
 GI 4512231  
 Exons 4088..4876  
 GI Descrip. (AB014741) ORF0 protein [Oryza sativa]

Seq. ID OJ990319\_10.9819.C22  
 Strand -  
 End 4876  
 Method AAT/NAP  
 End 4876  
 Score 1269

Seq. No. 29676  
 Gene No. 61334  
 Start 8391  
 Name OJ990319\_10.9819.C22.o1.tm  
 Start 4  
 GI none  
 Exons 4..69, 11..70, 65..214, 67..228, 74..229, 8634..9059, 8635..8841, 8991..9038, 9055..9141, 9057..9215, 9064..9192, 9069..9212

Seq. ID OJ990319\_10.9819.C22  
 Strand -  
 End 9321  
 Method TBLASTX:Maize  
 End 9215  
 Score 52

Seq. No. 29676  
 Gene No. 61334  
 Start 8391  
 Name OJ990319\_10.9819.C22.o4.tw  
 Start 22  
 GI none

Seq. ID OJ990319\_10.9819.C22  
 Strand -  
 End 9321  
 Method TBLASTX:Wheat  
 End 9321  
 Score 303



Exons 22..408, 29..403, 148..408, 9030..9320, 9032..9142, 9043..9195, 9283..9321

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o3.tm	Method	TBLASTX:Maize
Start	277	End	9320
GI	none	Score	300
Exons	277..567, 281..568, 281..568, 9282..9320, 9283..9318		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o2.ts	Method	TBLASTX:Soybean
Start	367	End	627
GI	none	Score	187
Exons	367..627, 368..616		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o1.tc	Method	TBLASTX:Cress
Start	391	End	717
GI	none	Score	87
Exons	391..534, 392..532, 535..717		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o1.tw	Method	TBLASTX:Wheat
Start	414	End	954
GI	none	Score	136
Exons	414..695, 415..798, 415..954, 419..913		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o2.tm	Method	TBLASTX:Maize
Start	982	End	1335
GI	none	Score	212
Exons	982..1335, 989..1330		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o2.tw	Method	TBLASTX:Wheat
Start	982	End	1407
GI	none	Score	317
Exons	982..1407, 989..1405		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o3.ts	Method	TBLASTX:Soybean
Start	1153	End	1401
GI	none	Score	206

Exons 1153..1401

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o5.tm	Method	TBLASTX:Maize
Start	1342	End	1674
GI	none	Score	144
Exons	1342..1674, 1343..1621		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o6.tw	Method	TBLASTX:Wheat
Start	1408	End	1671
GI	none	Score	250
Exons	1408..1671, 1409..1669		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o1.ts	Method	TBLASTX:Soybean
Start	1423	End	1818
GI	none	Score	189
Exons	1423..1674, 1433..1666, 1729..1782, 1739..1780, 1786..1818, 1786..1818		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o4.tm	Method	TBLASTX:Maize
Start	1729	End	2176
GI	none	Score	111
Exons	1729..2172, 1739..2176		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o3.tw	Method	TBLASTX:Wheat
Start	1759	End	2242
GI	none	Score	240
Exons	1759..2241, 1762..2238, 1802..2242		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o4.ts	Method	TBLASTX:Soybean
Start	1891	End	2205
GI	none	Score	198
Exons	1891..2205		

Seq. No.	29676	Seq. ID	OJ990319_10.9819.C22
Gene No.	61334	Strand	-
Start	8391	End	9321
Name	OJ990319_10.9819.C22.o7.tm	Method	TBLASTX:Maize
Start	2177	End	2370
GI	none	Score	155

Exons 2177..2332, 2179..2370

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o8.tw  
Start 2374  
GI none  
Exons 2374..2727, 2449..2727

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method TBLASTX:Wheat  
End 2727  
Score 57

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o7.tw  
Start 3061  
GI none  
Exons 3061..3411

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method TBLASTX:Wheat  
End 3411  
Score 316

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o6.tm  
Start 3109  
GI none  
Exons 3109..3411

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method TBLASTX:Maize  
End 3411  
Score 245

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o9.tw  
Start 3463  
GI none  
Exons 3463..3660, 3464..3661

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method TBLASTX:Wheat  
End 3661  
Score 128

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o3.gs  
Start 8391  
GI none  
Exons 8391..9143

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method GENSCAN  
End 9143  
Score .47

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o3.np  
Start 8394  
GI 4680179  
Exons 8394..9321

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method AAT/NAP  
End 9321  
Score 1155

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 29676  
Gene No. 61334  
Start 8391  
Name OJ990319\_10.9819.C22.o5.tw  
Start 8439  
GI none

Seq. ID OJ990319\_10.9819.C22  
Strand -  
End 9321  
Method TBLASTX:Wheat  
End 8861  
Score 172

Exons 8439..8861, 8491..8841

Seq. No.	29677	Seq. ID	OJ990319_10.9819.C25
Gene No.	61335	Strand	+
Start	194	End	365
Name	OJ990319_10.9819.C25.o1.gs	Method	GENSCAN
Start	194	End	365
GI	none	Score	.41
Exons	194..365		

Seq. No.	29678	Seq. ID	OJ990319_10.9819.C26
Gene No.	61336	Strand	+
Start	277	End	1310
Name	OJ990319_10.9819.C26.o1.tm	Method	TBLASTX:Maize
Start	195	End	492
GI	none	Score	125
Exons	195..293, 196..294, 301..492, 301..492		

Seq. No.	29678	Seq. ID	OJ990319_10.9819.C26
Gene No.	61336	Strand	+
Start	277	End	1310
Name	OJ990319_10.9819.C26.o1.gs	Method	GENSCAN
Start	277	End	614
GI	none	Score	.8
Exons	277..509, 605..614		

Seq. No.	29678	Seq. ID	OJ990319_10.9819.C26
Gene No.	61336	Strand	+
Start	277	End	1310
Name	OJ990319_10.9819.C26.o1.ts	Method	TBLASTX:Soybean
Start	283	End	835
GI	none	Score	297
Exons	283..618, 440..619, 480..620, 530..622, 707..835, 708..794		

Seq. No.	29678	Seq. ID	OJ990319_10.9819.C26
Gene No.	61336	Strand	+
Start	277	End	1310
Name	OJ990319_10.9819.C26.o1.np	Method	AAT/NAP
Start	347	End	1310
GI	6642655	Score	389
Exons	347..618, 704..848, 1228..1310		
GI Descrip.	(AC012395) putative Sec24-like COPII protein [Arabidopsis thaliana]		

Seq. No.	29679	Seq. ID	OJ990319_10.9819.C27
Gene No.	61337	Strand	+
Start	1	End	747
Name	OJ990319_10.9819.C27.o1.np	Method	AAT/NAP
Start	1	End	747
GI	4680179	Score	695
Exons	1..747		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29679	Seq. ID	OJ990319_10.9819.C27
Gene No.	61337	Strand	+
Start	1	End	747
Name	OJ990319_10.9819.C27.o1.tw	Method	TBLASTX:Wheat

Start 55  
 GI none  
 Exons 55..468, 129..449, 139..477

End 477  
 Score 338

Seq. No. 29679  
 Gene No. 61337  
 Start 1  
 Name OJ990319\_10.9819.C27.o1.tm  
 Start 121  
 GI none  
 Exons 121..450

Seq. ID OJ990319\_10.9819.C27  
 Strand +  
 End 747  
 Method TBLASTX:Maize  
 End 450  
 Score 208

Seq. No. 29679  
 Gene No. 61337  
 Start 1  
 Name OJ990319\_10.9819.C27.o1.gs  
 Start 184  
 GI none  
 Exons 184..345

Seq. ID OJ990319\_10.9819.C27  
 Strand +  
 End 747  
 Method GENSCAN  
 End 345  
 Score .65

Seq. No. 29679  
 Gene No. 61337  
 Start 1  
 Name OJ990319\_10.9819.C27.o1.ts  
 Start 433  
 GI none  
 Exons 433..465, 433..480, 510..746, 533..745

Seq. ID OJ990319\_10.9819.C27  
 Strand +  
 End 747  
 Method TBLASTX:Soybean  
 End 746  
 Score 53

Seq. No. 29679  
 Gene No. 61337  
 Start 1  
 Name OJ990319\_10.9819.C27.o2.tw  
 Start 540  
 GI none  
 Exons 540..746, 542..745

Seq. ID OJ990319\_10.9819.C27  
 Strand +  
 End 747  
 Method TBLASTX:Wheat  
 End 746  
 Score 166

Seq. No. 29680  
 Gene No. 61338  
 Start 132  
 Name OJ990319\_10.9819.C28.o1.np  
 Start 132  
 GI 5032266  
 Exons 132..431, 714..748

Seq. ID OJ990319\_10.9819.C28  
 Strand -  
 End 748  
 Method AAT/NAP  
 End 748  
 Score 143

GI Descrip. (AF147265) similar to Arabidopsis thaliana putative En/Spm transposon protein (GB:AC005396)

Seq. No. 29680  
 Gene No. 61338  
 Start 132  
 Name OJ990319\_10.9819.C28.o1.ts  
 Start 143  
 GI none  
 Exons 143..424, 168..407

Seq. ID OJ990319\_10.9819.C28  
 Strand -  
 End 748  
 Method TBLASTX:Soybean  
 End 424  
 Score 73

Seq. No. 29680  
 Gene No. 61338  
 Start 132

Seq. ID OJ990319\_10.9819.C28  
 Strand -  
 End 748

Name	OJ990319_10.9819.C28.o1.tw	Method	TBLASTX:Wheat
Start	167	End	437
GI	none	Score	83
Exons	167..436, 168..437		
Seq. No.	29681	Seq. ID	OJ990319_10.9819.C30
Gene No.	61339	Strand	+
Start	62	End	453
Name	OJ990319_10.9819.C30.o1.gs	Method	GENSCAN
Start	62	End	453
GI	none	Score	.81
Exons	62..152, 377..453		
Seq. No.	29682	Seq. ID	OJ990319_10.9819.C31
Gene No.	61340	Strand	-
Start	216	End	1773
Name	OJ990319_10.9819.C31.o1.gs	Method	GENSCAN
Start	216	End	1773
GI	none	Score	.92
Exons	216..477, 1380..1510, 1516..1773		
Seq. No.	29682	Seq. ID	OJ990319_10.9819.C31
Gene No.	61341	Strand	-
Start	2440	End	2728
Name	OJ990319_10.9819.C31.o1.tw	Method	TBLASTX:Wheat
Start	2439	End	2598
GI	none	Score	164
Exons	2439..2597, 2443..2598		
Seq. No.	29682	Seq. ID	OJ990319_10.9819.C31
Gene No.	61341	Strand	-
Start	2440	End	2728
Name	OJ990319_10.9819.C31.o1.np	Method	AAT/NAP
Start	2440	End	2707
GI	6742729	Score	382
Exons	2440..2707		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		
Seq. No.	29682	Seq. ID	OJ990319_10.9819.C31
Gene No.	61341	Strand	-
Start	2440	End	2728
Name	OJ990319_10.9819.C31.o1.tm	Method	TBLASTX:Maize
Start	2442	End	2728
GI	none	Score	87
Exons	2442..2582, 2445..2597, 2446..2598, 2645..2728		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.gp	Method	AAT/GAP
Start	470	End	1999
GI	2310235	Score	300
Exons	470..507, 921..1060, 1936..1999		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32

Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.gs	Method	GENSCAN
Start	921	End	3678
GI	none	Score	.5
Exons	921..1380, 1491..3678		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o2.gp	Method	AAT/GAP
Start	925	End	3681
GI	342_1.R1084	Score	4704
Exons	925..3681		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o4.tw	Method	TBLASTX:Wheat
Start	1323	End	1831
GI	none	Score	93
Exons	1323..1520, 1504..1626, 1505..1630, 1616..1687, 1639..1686, 1708..1770, 1712..1831		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.ts	Method	TBLASTX:Soybean
Start	1543	End	1972
GI	none	Score	102
Exons	1543..1626, 1544..1618, 1619..1681, 1676..1972, 1730..1954		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o2.tc	Method	TBLASTX:Cress
Start	1705	End	2053
GI	none	Score	318
Exons	1705..1857, 1712..2053, 1897..2034		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.np	Method	AAT/NAP
Start	1733	End	3693
GI	6742729	Score	3130
Exons	1733..3693		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		
Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o2.tw	Method	TBLASTX:Wheat
Start	1841	End	2310
GI	none	Score	72

Exons 1841..1894, 1849..1893, 1895..1999, 1906..1995, 2003..2101, 2008..2100, 2081..2305, 2101..2310, 2102..2305, 2104..2310

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.tm	Method	TBLASTX:Maize
Start	1886	End	2344
GI	none	Score	247
Exons	1886..2140, 1898..2140, 2150..2344		

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o2.ts	Method	TBLASTX:Soybean
Start	2174	End	2416
GI	none	Score	216
Exons	2174..2416, 2260..2358		

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o3.tw	Method	TBLASTX:Wheat
Start	2449	End	2859
GI	none	Score	87
Exons	2449..2499, 2450..2512, 2518..2700, 2522..2740, 2762..2857, 2768..2857, 2770..2859, 2773..2859		

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.tw	Method	TBLASTX:Wheat
Start	2860	End	3681
GI	none	Score	823
Exons	2860..3561, 2861..3679, 3401..3679, 3619..3681		

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o2.tm	Method	TBLASTX:Maize
Start	2903	End	3217
GI	none	Score	314
Exons	2903..3217, 2914..3075, 3106..3189		

Seq. No.	29683	Seq. ID	OJ990319_10.9819.C32
Gene No.	61342	Strand	+
Start	470	End	3693
Name	OJ990319_10.9819.C32.o1.tc	Method	TBLASTX:Cress
Start	3144	End	3595
GI	none	Score	172
Exons	3144..3326, 3148..3570, 3148..3561, 3152..3595, 3158..3595		

Seq. No.	29684	Seq. ID	OJ990319_10.9819.C33
Gene No.	61343	Strand	+
Start	100	End	1267
Name	OJ990319_10.9819.C33.o1.gs	Method	GENSCAN
Start	100	End	1267



GI	none	Score	.64
Exons	100..349, 431..504, 1104..1267		
Seq. No.	29685	Seq. ID	OJ990319_10.9819.C35
Gene No.	61344	Strand	+
Start	406	End	597
Name	OJ990319_10.9819.C35.o1.gs	Method	GENSCAN
Start	406	End	597
GI	none	Score	.99
Exons	406..597		
Seq. No.	29686	Seq. ID	OJ990319_10.9819.C38
Gene No.	61345	Strand	+
Start	496	End	754
Name	OJ990319_10.9819.C38.o1.gs	Method	GENSCAN
Start	496	End	754
GI	none	Score	.64
Exons	496..628, 697..754		
Seq. No.	29687	Seq. ID	OJ990319_10.9819.C39
Gene No.	61346	Strand	-
Start	260	End	1617
Name	OJ990319_10.9819.C39.o1.gp	Method	AAT/GAP
Start	260	End	1555
GI	342_1.R1084	Score	1666
Exons	260..785, 895..992, 1075..1094, 1130..1555		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		
Seq. No.	29687	Seq. ID	OJ990319_10.9819.C39
Gene No.	61346	Strand	-
Start	260	End	1617
Name	OJ990319_10.9819.C39.o1.gs	Method	GENSCAN
Start	1202	End	1537
GI	none	Score	.58
Exons	1202..1537		
Seq. No.	29687	Seq. ID	OJ990319_10.9819.C39
Gene No.	61346	Strand	-
Start	260	End	1617
Name	OJ990319_10.9819.C39.o1.np	Method	AAT/NAP
Start	1223	End	1617
GI	4680203	Score	298
Exons	1223..1617		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	29687	Seq. ID	OJ990319_10.9819.C39
Gene No.	61346	Strand	-
Start	260	End	1617
Name	OJ990319_10.9819.C39.o1.tw	Method	TBLASTX:Wheat
Start	1277	End	1556
GI	none	Score	52
Exons	1277..1369, 1278..1343, 1358..1438, 1451..1555, 1452..1556		
Seq. No.	29688	Seq. ID	OJ990429_12.9819.C2
Gene No.	61347	Strand	+
Start	1	End	195

Name	OJ990429_12.9819.C2.ol.np	Method	AAT/NAP
Start	1	End	195
GI	2832645	Score	76
Exons	1..195		
GI Descrip.	(AL021710) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29688	Seq. ID	OJ990429_12.9819.C2
Gene No.	61348	Strand	+
Start	171	End	340
Name	OJ990429_12.9819.C2.ol.gs	Method	GENSCAN
Start	171	End	340
GI	none	Score	.83
Exons	171..340		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61349	Strand	-
Start	1	End	2122
Name	OJ990429_12.9819.C4.ol.np	Method	AAT/NAP
Start	1	End	2116
GI	4883601	Score	356
Exons	1..59, 1163..1276, 1620..1874, 1963..2116		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61349	Strand	-
Start	1	End	2122
Name	OJ990429_12.9819.C4.ol.gs	Method	GENSCAN
Start	190	End	2122
GI	none	Score	.57
Exons	190..295, 1171..1276, 1963..2122		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.ol.tc	Method	TBLASTX:Cress
Start	1176	End	2105
GI	none	Score	66
Exons	1176..1277, 1177..1242, 1621..1674, 1759..1797, 1831..1875, 1967..2104, 2031..2105		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.ol.tm	Method	TBLASTX:Maize
Start	1203	End	2117
GI	none	Score	69
Exons	1203..1277, 1206..1277, 1617..1679, 1621..1680, 1622..1681, 1741..1875, 1742..1882, 1763..1876, 1964..2107, 2025..2117		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.ol.ts	Method	TBLASTX:Soybean
Start	1759	End	2102
GI	none	Score	63
Exons	1759..1800, 1822..1875, 1964..2101, 2025..2102		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.o2.np	Method	AAT/NAP
Start	4183	End	6789
GI	4063743	Score	207
Exons	4183..4360, 6094..6789		
GI Descrip.	(AC005851) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.o2.gs	Method	GENSCAN
Start	5011	End	6783
GI	none	Score	.62
Exons	5011..5026, 5246..5440, 5558..6783		

Seq. No.	29689	Seq. ID	OJ990429_12.9819.C4
Gene No.	61350	Strand	-
Start	5011	End	6789
Name	OJ990429_12.9819.C4.o2.ts	Method	TBLASTX:Soybean
Start	6409	End	6663
GI	none	Score	61
Exons	6409..6585, 6410..6538, 6622..6663		

Seq. No.	29690	Seq. ID	OJ990429_12.9819.C5
Gene No.	61351	Strand	+
Start	54	End	1080
Name	OJ990429_12.9819.C5.o1.gs	Method	GENSCAN
Start	54	End	1080
GI	none	Score	.77
Exons	54..385, 1040..1080		

Seq. No.	29691	Seq. ID	OJ990429_12.9819.C6
Gene No.	61352	Strand	-
Start	1566	End	1681
Name	OJ990429_12.9819.C6.o1.gp	Method	AAT/GAP
Start	1566	End	1681
GI	uC-osflcyp087a02a1	Score	205
Exons	1566..1681		
GI Descrip.	'3582333 7.0e-40 (AC005496) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	29692	Seq. ID	OJ990429_12.9819.C8
Gene No.	61353	Strand	-
Start	1	End	1410
Name	OJ990429_12.9819.C8.o1.gp	Method	AAT/GAP
Start	1	End	1326
GI	31010_1.R1084	Score	498
Exons	1..292, 824..870, 1217..1326		
GI Descrip.	'629592/pir  S42651 1.0e-47 hypothetical protein - rape >gi_6065752_emb_CAB58175.1_(X74225) putative pod-specific dehydrogenase SAC25 [Brassica napus]'		

Seq. No.	29692	Seq. ID	OJ990429_12.9819.C8
Gene No.	61353	Strand	-
Start	1	End	1410

Name	OJ990429_12.9819.C8.o1.np	Method	AAT/NAP
Start	133	End	1410
GI	629592	Score	101
Exons	133..369, 1232..1410		
GI Descrip.	hypothetical protein - rape gi 6065752 emb CAB58175.1  (X74225) putative pod-specific dehydrogenase SAC25 [Brassica napus]		

Seq. No.	29692	Seq. ID	OJ990429_12.9819.C8
Gene No.	61353	Strand	-
Start	1	End	1410
Name	OJ990429_12.9819.C8.o1.gs	Method	GENSCAN
Start	204	End	1301
GI	none	Score	.51
Exons	204..254, 1217..1301		

Seq. No.	29693	Seq. ID	OJ990429_12.9819.C9
Gene No.	61354	Strand	-
Start	453	End	979
Name	OJ990429_12.9819.C9.o1.gs	Method	GENSCAN
Start	453	End	979
GI	none	Score	.56
Exons	453..548, 644..728, 971..979		

Seq. No.	29694	Seq. ID	OJ990429_12.9819.C11
Gene No.	61355	Strand	+
Start	611	End	732
Name	OJ990429_12.9819.C11.o1.gs	Method	GENSCAN
Start	611	End	732
GI	none	Score	.43
Exons	611..732		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.gp	Method	AAT/GAP
Start	262	End	700
GI	31959 1.R1084	Score	842
Exons	262..700		
GI Descrip.	'3451068/emb CAA20464.1  3.0e-43 (AL031326) putative protein [Arabidopsis thaliana]'		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.tm	Method	TBLASTX:Maize
Start	339	End	701
GI	none	Score	445
Exons	339..701, 353..559, 495..566, 653..700		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.gs	Method	GENSCAN
Start	354	End	707
GI	none	Score	.53
Exons	354..707		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.np	Method	AAT/NAP
Start	363	End	762
GI	3451068	Score	310
Exons	363..762		
GI Descrip.	(AL031326) putative protein [Arabidopsis thaliana]		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.ts	Method	TBLASTX:Soybean
Start	366	End	719
GI	none	Score	353
Exons	366..719, 380..559		

Seq. No.	29695	Seq. ID	OJ990429_12.9819.C12
Gene No.	61356	Strand	+
Start	262	End	762
Name	OJ990429_12.9819.C12.o1.tc	Method	TBLASTX:Cress
Start	383	End	701
GI	none	Score	312
Exons	383..541, 384..701		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61357	Strand	+
Start	463	End	1075
Name	OJ990429_12.9819.C14.o1.gp	Method	AAT/GAP
Start	463	End	922
GI	LIB3434-042-P1-K1-A6	Score	536
Exons	463..601, 767..922		
GI Descrip.	'1087073/bbs1169916 2.0e-34 (S79243) calmodulin-binding heat-shock protein, CaMBP [Nicotiana tabacum=tobacco, Wisconsin-38, Peptide, 449 aa] [Nicotiana tabacum]'		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61357	Strand	+
Start	463	End	1075
Name	OJ990429_12.9819.C14.o1.np	Method	AAT/NAP
Start	463	End	1075
GI	6522561	Score	297
Exons	463..601, 767..1075		
GI Descrip.	(AL132967) calmodulin-binding heat-shock-like protein [Arabidopsis thaliana]		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61357	Strand	+
Start	463	End	1075
Name	OJ990429_12.9819.C14.o1.gs	Method	GENSCAN
Start	466	End	1075
GI	none	Score	.98
Exons	466..601, 767..1075		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61358	Strand	+
Start	2530	End	2694

Name	OJ990429_12.9819.C14.o4.gp	Method	AAT/GAP
Start	2530	End	2694
GI	700259	Score	290
Exons	2530..2694		
GI Descrip.	3047123 3.0e-36 (AF058919) similar to the family of glycosyl hydrolases [Arabidopsis thaliana]		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61359	Strand	-
Start	1434	End	1787
Name	OJ990429_12.9819.C14.o2.gp	Method	AAT/GAP
Start	1434	End	1787
GI	3768577	Score	499
Exons	1434..1787		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o2.ts	Method	TBLASTX:Soybean
Start	460	End	874
GI	none	Score	207
Exons	460..606, 464..604, 767..874		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	463	End	1012
GI	none	Score	230
Exons	463..606, 464..604, 465..605, 767..931, 769..936, 931..978, 932..985, 973..1011, 983..1012		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	1908	End	2581
GI	none	Score	44
Exons	1908..1952, 1909..1974, 1979..2011, 1981..2010, 2088..2321, 2089..2316, 2091..2318, 2457..2570, 2465..2581, 2466..2579		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o2.gs	Method	GENSCAN
Start	1981	End	2692
GI	none	Score	.89
Exons	1981..2009, 2096..2315, 2474..2692		

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o2.np	Method	AAT/NAP
Start	2040	End	2990
GI	3047123	Score	627
Exons	2040..2315, 2474..2990		
GI Descrip.	(AF058919) similar to the family of glycosyl hydrolases		

[Arabidopsis thaliana]

Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o1.tc	Method	TBLASTX:Cress
Start	2100	End	2689
GI	none	Score	183
Exons	2100..2195, 2519..2689		
Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o3.gp	Method	AAT/GAP
Start	2123	End	2245
GI	LIB3433-033-P1-K1-B10	Score	123
Exons	2123..2245		
GI Descrip.	'3047123 3.0e-36 (AF058919) similar to the family of glycosyl hydrolases [Arabidopsis thaliana]'		
Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o1.ts	Method	TBLASTX:Soybean
Start	2160	End	2695
GI	none	Score	132
Exons	2160..2321, 2161..2316, 2166..2318, 2457..2678, 2465..2695, 2466..2690		
Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o1.tw	Method	TBLASTX:Wheat
Start	2471	End	2695
GI	none	Score	301
Exons	2471..2695, 2472..2693, 2476..2694		
Seq. No.	29696	Seq. ID	OJ990429_12.9819.C14
Gene No.	61360	Strand	-
Start	1981	End	2990
Name	OJ990429_12.9819.C14.o3.tm	Method	TBLASTX:Maize
Start	2582	End	2693
GI	none	Score	159
Exons	2582..2692, 2586..2693		
Seq. No.	29697	Seq. ID	OJ990429_12.9819.C15
Gene No.	61361	Strand	-
Start	1	End	1102
Name	OJ990429_12.9819.C15.o1.gp	Method	AAT/GAP
Start	1	End	677
GI	11896 1.R1084	Score	283
Exons	1..135, 227..280, 631..677		
GI Descrip.	'2980789/emb CAA18165.1  6.0e-42 (AL022197) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	29697	Seq. ID	OJ990429_12.9819.C15
Gene No.	61361	Strand	-

Start	1	End	1102
Name	OJ990429_12.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	1026
GI	2980789	Score	130
Exons	1..135, 227..280, 631..677, 870..1026		
GI Descrip.	(AL022197) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29697	Seq. ID	OJ990429_12.9819.C15
Gene No.	61361	Strand	-
Start	1	End	1102
Name	OJ990429_12.9819.C15.o1.tw	Method	TBLASTX:Wheat
Start	226	End	1025
GI	none	Score	63
Exons	226..282, 625..675, 633..677, 634..690, 890..1024, 945..1025		
Seq. No.	29697	Seq. ID	OJ990429_12.9819.C15
Gene No.	61361	Strand	-
Start	1	End	1102
Name	OJ990429_12.9819.C15.o1.gs	Method	GENSCAN
Start	227	End	1102
GI	none	Score	.56
Exons	227..280, 631..675, 890..1102		
Seq. No.	29698	Seq. ID	OJ990429_12.9819.C16
Gene No.	61362	Strand	-
Start	1	End	1599
Name	OJ990429_12.9819.C16.o1.np	Method	AAT/NAP
Start	1	End	1599
GI	6522561	Score	398
Exons	1..236, 695..823, 1518..1599		
GI Descrip.	(AL132967) calmodulin-binding heat-shock-like protein [Arabidopsis thaliana]		
Seq. No.	29698	Seq. ID	OJ990429_12.9819.C16
Gene No.	61362	Strand	-
Start	1	End	1599
Name	OJ990429_12.9819.C16.o1.gs	Method	GENSCAN
Start	20	End	799
GI	none	Score	.95
Exons	20..236, 695..799		
Seq. No.	29698	Seq. ID	OJ990429_12.9819.C16
Gene No.	61362	Strand	-
Start	1	End	1599
Name	OJ990429_12.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	96	End	1579
GI	none	Score	208
Exons	96..239, 97..237, 98..238, 102..239, 692..823, 694..846, 694..804, 1520..1579, 1521..1577		
Seq. No.	29698	Seq. ID	OJ990429_12.9819.C16
Gene No.	61362	Strand	-
Start	1	End	1599
Name	OJ990429_12.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	96	End	1573
GI	none	Score	162
Exons	96..242, 98..238, 682..807, 704..823, 704..820, 709..846,		



1523..1573

Seq. No.	29698	Seq. ID	OJ990429_12.9819.C16
Gene No.	61362	Strand	-
Start	1	End	1599
Name	OJ990429_12.9819.C16.o1.gp	Method	AAT/GAP
Start	101	End	788
GI	LIB3434-042-P1-K1-A6	Score	399
Exons	101..236, 695..788		
GI Descrip.	'1087073/bbs 169916 2.0e-34 (S79243) calmodulin-binding heat-shock protein, CaMBP [Nicotiana tabacum=tobacco, Wisconsin-38, Peptide, 449 aa] [Nicotiana tabacum]'		

Seq. No.	29699	Seq. ID	OJ990429_12.9819.C17
Gene No.	61363	Strand	-
Start	1	End	397
Name	OJ990429_12.9819.C17.o1.np	Method	AAT/NAP
Start	1	End	390
GI	3047111	Score	377
Exons	1..390		
GI Descrip.	(AF058919) No definition line found [Arabidopsis thaliana]		

Seq. No.	29699	Seq. ID	OJ990429_12.9819.C17
Gene No.	61363	Strand	-
Start	1	End	397
Name	OJ990429_12.9819.C17.o1.ts	Method	TBLASTX:Soybean
Start	19	End	366
GI	none	Score	71
Exons	19..177, 211..366, 212..295, 319..363		

Seq. No.	29699	Seq. ID	OJ990429_12.9819.C17
Gene No.	61363	Strand	-
Start	1	End	397
Name	OJ990429_12.9819.C17.o1.tm	Method	TBLASTX:Maize
Start	211	End	397
GI	none	Score	99
Exons	211..390, 212..397		

Seq. No.	29700	Seq. ID	OJ990429_12.9819.C18
Gene No.	61364	Strand	-
Start	182	End	210
Name	OJ990429_12.9819.C18.o1.gs	Method	GENSCAN
Start	182	End	210
GI	none	Score	.46
Exons	182..210		

Seq. No.	29701	Seq. ID	OJ990429_12.9819.C20
Gene No.	61365	Strand	-
Start	345	End	480
Name	OJ990429_12.9819.C20.o1.gs	Method	GENSCAN
Start	345	End	480
GI	none	Score	.77
Exons	345..386, 436..480		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61366	Strand	+
Start	361	End	862

Name OJ990429\_12.9819.C21.o1.gs  
 Start 361  
 GI none  
 Exons 361..417, 561..862

Method GENSCAN  
 End 862  
 Score .87

Seq. No. 29702  
 Gene No. 61367  
 Start 5406  
 Name OJ990429\_12.9819.C21.o3.gs  
 Start 5406  
 GI none  
 Exons 5406..6278

Seq. ID OJ990429\_12.9819.C21  
 Strand +  
 End 6390  
 Method GENSCAN  
 End 6278  
 Score .74

Seq. No. 29702  
 Gene No. 61367  
 Start 5406  
 Name OJ990429\_12.9819.C21.o2.gp  
 Start 6101  
 GI 5851081  
 Exons 6101..6149, 6210..6390

Seq. ID OJ990429\_12.9819.C21  
 Strand +  
 End 6390  
 Method AAT/GAP  
 End 6390  
 Score 329

Seq. No. 29702  
 Gene No. 61368  
 Start 1551  
 Name OJ990429\_12.9819.C21.o1.gp  
 Start 1551  
 GI 468 1.R1084  
 Exons 1551..2102, 2427..2503

Seq. ID OJ990429\_12.9819.C21  
 Strand -  
 End 2503  
 Method AAT/GAP  
 End 2503  
 Score 1134

GI Descrip. '1084454/pir||S48018 1.0e-87 peptidylprolyl isomerase (EC 5.2.1.8) Cyp1 - rice >gi\_600765 (L29471) cyclophilin 1 [Oryza sativa]'

Seq. No. 29702  
 Gene No. 61368  
 Start 1551  
 Name OJ990429\_12.9819.C21.o2.np  
 Start 1558  
 GI 1084454  
 Exons 1558..2094

Seq. ID OJ990429\_12.9819.C21  
 Strand -  
 End 2503  
 Method AAT/NAP  
 End 2094  
 Score 960

GI Descrip. peptidylprolyl isomerase (EC 5.2.1.8) Cyp1 - rice gi|600765 (L29471) cyclophilin 1 [Oryza sativa]

Seq. No. 29702  
 Gene No. 61369  
 Start 6417  
 Name OJ990429\_12.9819.C21.o5.ts  
 Start 635  
 GI none  
 Exons 635..844, 658..843

Seq. ID OJ990429\_12.9819.C21  
 Strand -  
 End 7940  
 Method TBLASTX:Soybean  
 End 844  
 Score 201

Seq. No. 29702  
 Gene No. 61369  
 Start 6417  
 Name OJ990429\_12.9819.C21.o1.ts  
 Start 1570  
 GI none  
 Exons 1570..2088, 1571..1840, 1883..2083

Seq. ID OJ990429\_12.9819.C21  
 Strand -  
 End 7940  
 Method TBLASTX:Soybean  
 End 2088  
 Score 277

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o1.tm	Method	TBLASTX:Maize
Start	1573	End	2091
GI	none	Score	265
Exons	1573..2082, 1577..1840, 1880..2089, 1900..2091		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o1.tc	Method	TBLASTX:Cress
Start	1576	End	2095
GI	none	Score	265
Exons	1576..2082, 1577..1840, 1883..2095		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o1.tw	Method	TBLASTX:Wheat
Start	1576	End	2092
GI	none	Score	273
Exons	1576..2082, 1580..1840, 1880..2092		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o2.tm	Method	TBLASTX:Maize
Start	5414	End	5777
GI	none	Score	546
Exons	5414..5725, 5415..5777		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o2.ts	Method	TBLASTX:Soybean
Start	5414	End	5819
GI	none	Score	203
Exons	5414..5545, 5415..5603, 5601..5819, 5645..5728		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o4.np	Method	AAT/NAP
Start	6402	End	7940
GI	4415916	Score	791
Exons	6402..7429, 7722..7940		
GI Descrip.	(AC006282) putative pectinesterase [Arabidopsis thaliana]		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o4.gs	Method	GENSCAN
Start	6417	End	7464
GI	none	Score	.64
Exons	6417..6728, 6754..7464		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o4.ts	Method	TBLASTX:Soybean
Start	6471	End	6741
GI	none	Score	51
Exons	6471..6551, 6564..6740, 6565..6651, 6682..6741		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o3.tm	Method	TBLASTX:Maize
Start	6618	End	7080
GI	none	Score	79
Exons	6618..6839, 6628..6816, 6853..7080, 6869..7042		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o2.tc	Method	TBLASTX:Cress
Start	6654	End	7108
GI	none	Score	54
Exons	6654..6770, 6756..6839, 6757..6816, 6853..7104, 6877..7056, 6884..7108		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o2.tw	Method	TBLASTX:Wheat
Start	6839	End	7475
GI	none	Score	75
Exons	6839..7042, 6853..7146, 6856..7083, 7153..7353, 7358..7429, 7361..7411, 7404..7475, 7405..7455		

Seq. No.	29702	Seq. ID	OJ990429_12.9819.C21
Gene No.	61369	Strand	-
Start	6417	End	7940
Name	OJ990429_12.9819.C21.o3.ts	Method	TBLASTX:Soybean
Start	6853	End	7255
GI	none	Score	130
Exons	6853..7254, 6872..7135, 7187..7255		

Seq. No.	29703	Seq. ID	OJ990429_12.9819.C22
Gene No.	61370	Strand	-
Start	254	End	1814
Name	OJ990429_12.9819.C22.o1.np	Method	AAT/NAP
Start	254	End	1095
GI	2346984	Score	114
Exons	254..628, 974..1095		
GI Descrip.	(AB006604) ZPT2-9 [Petunia x hybrida]		

Seq. No.	29703	Seq. ID	OJ990429_12.9819.C22
Gene No.	61370	Strand	-
Start	254	End	1814
Name	OJ990429_12.9819.C22.o1.gs	Method	GENSCAN
Start	344	End	1574

GI	none	Score	.71
Exons	344..710, 1021..1197, 1572..1574		
Seq. No.	29703	Seq. ID	OJ990429_12.9819.C22
Gene No.	61370	Strand	-
Start	254	End	1814
Name	OJ990429_12.9819.C22.o2.np	Method	AAT/NAP
Start	1364	End	1814
GI	5777617	Score	90
Exons	1364..1470, 1785..1814		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	29704	Seq. ID	OJ990429_12.9819.C23
Gene No.	61371	Strand	+
Start	1	End	1100
Name	OJ990429_12.9819.C23.o1.np	Method	AAT/NAP
Start	1	End	1067
GI	3451067	Score	107
Exons	1..66, 906..1067		
GI Descrip.	(AL031326) putative protein [Arabidopsis thaliana]		
Seq. No.	29704	Seq. ID	OJ990429_12.9819.C23
Gene No.	61371	Strand	+
Start	1	End	1100
Name	OJ990429_12.9819.C23.o1.tm	Method	TBLASTX:Maize
Start	323	End	1100
GI	none	Score	75
Exons	323..373, 327..374, 327..374, 328..375, 328..375, 898..1050, 899..961, 900..1100, 903..1058		
Seq. No.	29704	Seq. ID	OJ990429_12.9819.C23
Gene No.	61371	Strand	+
Start	1	End	1100
Name	OJ990429_12.9819.C23.o1.gs	Method	GENSCAN
Start	878	End	1064
GI	none	Score	.97
Exons	878..880, 945..1064		
Seq. No.	29705	Seq. ID	OJ990429_12.9819.C25
Gene No.	61372	Strand	-
Start	497	End	569
Name	OJ990429_12.9819.C25.o1.gs	Method	GENSCAN
Start	497	End	569
GI	none	Score	.67
Exons	497..569		
Seq. No.	29705	Seq. ID	OJ990429_12.9819.C25
Gene No.	61373	Strand	-
Start	598	End	661
Name	OJ990429_12.9819.C25.o1.tc	Method	TBLASTX:Cress
Start	495	End	659
GI	none	Score	117
Exons	495..659, 508..657		
Seq. No.	29705	Seq. ID	OJ990429_12.9819.C25
Gene No.	61373	Strand	-
Start	598	End	661

Name	OJ990429_12.9819.C25.o1.ts	Method	TBLASTX:Soybean
Start	495	End	656
GI	none	Score	163
Exons	495..656, 513..656		
Seq. No.	29705	Seq. ID	OJ990429_12.9819.C25
Gene No.	61373	Strand	-
Start	598	End	661
Name	OJ990429_12.9819.C25.o1.tm	Method	TBLASTX:Maize
Start	495	End	661
GI	none	Score	189
Exons	495..659, 496..660, 515..661		
Seq. No.	29705	Seq. ID	OJ990429_12.9819.C25
Gene No.	61373	Strand	-
Start	598	End	661
Name	OJ990429_12.9819.C25.o1.gp	Method	AAT/GAP
Start	598	End	660
GI	none	Score	102
Exons	598..660		
Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547
Name	OJ990429_12.9819.C27.o1.np	Method	AAT/NAP
Start	1	End	625
GI	4883601	Score	376
Exons	1..391, 494..625		
GI Descrip.	(AC006922) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547
Name	OJ990429_12.9819.C27.o1.ts	Method	TBLASTX:Soybean
Start	104	End	622
GI	none	Score	282
Exons	104..400, 118..363, 494..559, 569..622		
Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547
Name	OJ990429_12.9819.C27.o1.gs	Method	GENSCAN
Start	107	End	1547
GI	none	Score	.75
Exons	107..391, 1403..1547		
Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547
Name	OJ990429_12.9819.C27.o1.tm	Method	TBLASTX:Maize
Start	137	End	595
GI	none	Score	259
Exons	137..400, 139..390, 143..391, 494..595		
Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547

Name	OJ990429_12.9819.C27.o1.tw	Method	TBLASTX:Wheat
Start	180	End	626
GI	none	Score	217
Exons	180..392, 182..409, 184..390, 194..391, 493..564, 494..568, 497..568, 571..624, 572..625, 576..626, 578..625		

Seq. No.	29706	Seq. ID	OJ990429_12.9819.C27
Gene No.	61374	Strand	+
Start	1	End	1547
Name	OJ990429_12.9819.C27.o1.tc	Method	TBLASTX:Cress
Start	206	End	622
GI	none	Score	210
Exons	206..409, 223..390, 494..583, 578..622		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61375	Strand	+
Start	1	End	433
Name	OJ990429_12.9819.C28.o1.np	Method	AAT/NAP
Start	1	End	433
GI	6579213	Score	246
Exons	1..433		
GI Descrip.	(AC011438) T23G18.3 [Arabidopsis thaliana]		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61375	Strand	+
Start	1	End	433
Name	OJ990429_12.9819.C28.o1.gs	Method	GENSCAN
Start	119	End	418
GI	none	Score	.97
Exons	119..418		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o2.tm	Method	TBLASTX:Maize
Start	125	End	409
GI	none	Score	248
Exons	125..409, 155..205, 175..276, 195..242, 307..405		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o1.tw	Method	TBLASTX:Wheat
Start	154	End	409
GI	none	Score	80
Exons	154..273, 155..250, 155..409, 307..405		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o2.tc	Method	TBLASTX:Cress
Start	155	End	409
GI	none	Score	252
Exons	155..409, 175..396		

Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-

Start	850	End	2040
Name	OJ990429_12.9819.C28.o2.ts	Method	TBLASTX:Soybean
Start	155	End	409
GI	none	Score	255
Exons	155..409, 307..405		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o3.np	Method	AAT/NAP
Start	821	End	2040
GI	6016680	Score	384
Exons	821..927, 999..2040		
GI Descrip.	(AC009991) putative leucoanthocyanidin dioxygenase [Arabidopsis thaliana]		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o2.gs	Method	GENSCAN
Start	850	End	1943
GI	none	Score	.59
Exons	850..1943		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o2.np	Method	AAT/NAP
Start	883	End	1974
GI	4415914	Score	674
Exons	883..1974		
GI Descrip.	(AC006282) putative gibberellin beta-hydroxylase [Arabidopsis thaliana]		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o1.ts	Method	TBLASTX:Soybean
Start	1000	End	1356
GI	none	Score	70
Exons	1000..1203, 1001..1141, 1213..1356, 1244..1351		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o1.tc	Method	TBLASTX:Cress
Start	1006	End	1350
GI	none	Score	79
Exons	1006..1350, 1010..1138		
Seq. No.	29707	Seq. ID	OJ990429_12.9819.C28
Gene No.	61376	Strand	-
Start	850	End	2040
Name	OJ990429_12.9819.C28.o1.tm	Method	TBLASTX:Maize
Start	1006	End	1362
GI	none	Score	71
Exons	1006..1203, 1010..1141, 1213..1362, 1247..1354		



Seq. No. 29707  
 Gene No. 61376  
 Start 850  
 Name OJ990429\_12.9819.C28.o2.tw  
 Start 1126  
 GI none  
 Exons 1126..1338

Seq. ID OJ990429\_12.9819.C28  
 Strand -  
 End 2040  
 Method TBLASTX:Wheat  
 End 1338  
 Score 196

Seq. No. 29708  
 Gene No. 61377  
 Start 408  
 Name OJ990429\_12.9819.C29.o1.gs  
 Start 408  
 GI none  
 Exons 408..467

Seq. ID OJ990429\_12.9819.C29  
 Strand +  
 End 467  
 Method GENSCAN  
 End 467  
 Score .68

Seq. No. 29708  
 Gene No. 61378  
 Start 13283  
 Name OJ990429\_12.9819.C29.o2.gp  
 Start 13283  
 GI none  
 Exons 13283..13737

Seq. ID OJ990429\_12.9819.C29  
 Strand +  
 End 13737  
 Method AAT/GAP  
 End 13737  
 Score 894

Seq. No. 29708  
 Gene No. 61379  
 Start 4130  
 Name OJ990429\_12.9819.C29.o2.gs  
 Start 4130  
 GI none  
 Exons 4130..4266, 5638..5923

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 5923  
 Method GENSCAN  
 End 5923  
 Score .43

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o7.tm  
 Start 4135  
 GI none  
 Exons 4135..4404, 4256..4402

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method TBLASTX:Maize  
 End 4404  
 Score 76

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o1.tw  
 Start 4482  
 GI none  
 Exons 4482..4541, 4543..4698, 4544..4711, 4544..4843, 4554..4724

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method TBLASTX:Wheat  
 End 4843  
 Score 94

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o4.tm  
 Start 4574  
 GI none  
 Exons 4574..4642, 4599..4655, 4673..4882, 4685..4741, 4847..5041, 4864..5040

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method TBLASTX:Maize  
 End 5041  
 Score 52

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o3.tw	Method	TBLASTX:Wheat
Start	4942	End	5494
GI	none	Score	64
Exons	4942..5040, 5119..5208, 5195..5314, 5384..5494		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o1.tm	Method	TBLASTX:Maize
Start	5248	End	6041
GI	none	Score	38
Exons	5248..5280, 5349..5522, 5375..5728, 5384..6040, 5583..5960, 5837..6022, 5994..6041		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o2.tw	Method	TBLASTX:Wheat
Start	5573	End	5912
GI	none	Score	88
Exons	5573..5725, 5730..5912, 5735..5911		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o3.gs	Method	GENSCAN
Start	7911	End	18002
GI	none	Score	.85
Exons	7911..8543, 8611..8712, 9178..9324, 9797..9892, 9980..10164, 10782..10961, 11255..11443, 11538..11783, 11914..12078, 14448..14613, 14855..15161, 15249..16055, 16534..16646, 16744..16944, 17958..18002		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o1.gp	Method	AAT/GAP
Start	8112	End	8559
GI	none	Score	844
Exons	8112..8559		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
Gene No.	61380	Strand	-
Start	7911	End	18912
Name	OJ990429_12.9819.C29.o3.tm	Method	TBLASTX:Maize
Start	8370	End	10048
GI	none	Score	166
Exons	8370..8543, 8370..8543, 8371..8544, 8597..8695, 8620..8691, 9169..9291, 9176..9286, 9177..9287, 9373..9432, 9374..9430, 9400..9432, 9501..9566, 9512..9547, 9787..9882, 9792..9893, 9794..9913, 9795..9893, 9969..10046, 9975..10046, 9977..10048		

Seq. No.	29708	Seq. ID	OJ990429_12.9819.C29
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Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o2.np Method AAT/NAP  
 Start 8456 End 11384  
 GI 2642156 Score 158  
 Exons 8456..8543, 9178..9336, 9378..9417, 9797..9892, 9980..10184,  
 10810..10949, 11249..11384  
 GI Descrip. (AC003000) hypothetical protein [Arabidopsis thaliana]

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o6.tm Method TBLASTX:Maize  
 Start 10115 End 11490  
 GI none Score 78  
 Exons 10115..10165, 10115..10180, 10778..10969, 10781..10960,  
 10783..10962, 11241..11393, 11242..11490, 11279..11449

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o5.np Method AAT/NAP  
 Start 11739 End 18912  
 GI 4510421 Score 269  
 Exons 11739..11784, 14864..15161, 15249..16075, 16521..16646,  
 16744..16862, 18855..18912  
 GI Descrip. (AC006929) unknown protein [Arabidopsis thaliana]

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o1.tc Method TBLASTX:Cress  
 Start 13627 End 14614  
 GI none Score 126  
 Exons 13627..13755, 13643..13759, 13840..13986, 13881..13985,  
 13886..13996, 14446..14610, 14446..14613, 14459..14614

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o1.ts Method TBLASTX:Soybean  
 Start 13627 End 14614  
 GI none Score 125  
 Exons 13627..13755, 13628..13759, 13868..13951, 13879..13965,  
 13881..13973, 14446..14607, 14447..14614, 14462..14608

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -  
 Start 7911 End 18912  
 Name OJ990429\_12.9819.C29.o5.tm Method TBLASTX:Maize  
 Start 13691 End 14616  
 GI none Score 100  
 Exons 13691..13747, 13693..13755, 13846..14010, 13855..13962,  
 13868..13963, 13881..13994, 14446..14616, 14447..14614

Seq. No. 29708 Seq. ID OJ990429\_12.9819.C29  
 Gene No. 61380 Strand -

Start 7911  
 Name OJ990429\_12.9819.C29.o3.gp  
 Start 14549  
 GI none  
 Exons 14549..14613, 14855..15297

End 18912  
 Method AAT/GAP  
 End 15297  
 Score 992

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o4.np  
 Start 14865  
 GI 4510421  
 Exons 14865..15161, 15249..16075, 16521..16646, 16744..16862, 18775..18799

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method AAT/NAP  
 End 18799  
 Score 269

GI Descrip. (AC006929) unknown protein [Arabidopsis thaliana]

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o2.tm  
 Start 15035  
 GI none  
 Exons 15035..15166, 15035..15163, 15248..15472, 15250..15453, 15359..15466, 15359..15463, 15521..15637

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method TBLASTX:Maize  
 End 15637  
 Score 175

Seq. No. 29708  
 Gene No. 61380  
 Start 7911  
 Name OJ990429\_12.9819.C29.o2.ts  
 Start 15035  
 GI none  
 Exons 15035..15160, 15057..15161, 15251..15325, 15274..15378

Seq. ID OJ990429\_12.9819.C29  
 Strand -  
 End 18912  
 Method TBLASTX:Soybean  
 End 15378  
 Score 121

Seq. No. 29709  
 Gene No. 61381  
 Start 430  
 Name OJ990429\_12.9819.C30.o1.gp  
 Start 430  
 GI uC-osflcyp087a02a1  
 Exons 430..867  
 GI Descrip. '3582333 7.0e-40 (AC005496) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ990429\_12.9819.C30  
 Strand +  
 End 867  
 Method AAT/GAP  
 End 867  
 Score 790

Seq. No. 29709  
 Gene No. 61382  
 Start 940  
 Name OJ990429\_12.9819.C30.o2.gp  
 Start 648  
 GI 2800097  
 Exons 648..1037, 1193..1218  
 GI Descrip. 2252847 5.0e-20 (AF013293) No definition line found [Arabidopsis thaliana] >gi\_6049889\_gb\_AAF02804.1\_AF195115\_24 (AF195115) weak similarity to phthalate permease family [Arabidopsis thaliana]

Seq. ID OJ990429\_12.9819.C30  
 Strand -  
 End 5082  
 Method AAT/GAP  
 End 1218  
 Score 647

Seq. No. 29709  
 Gene No. 61382  
 Start 940

Seq. ID OJ990429\_12.9819.C30  
 Strand -  
 End 5082

Name	OJ990429_12.9819.C30.o3.gp	Method	AAT/GAP
Start	758	End	1268
GI	2800097	Score	574
Exons	758..1037, 1193..1268		
GI Descrip.	2252847 5.0e-20 (AF013293) No definition line found [Arabidopsis thaliana] >gi_6049889_gb_AAF02804.1_AF195115_24 (AF195115) weak similarity to phthalate permease family [Arabidopsis thaliana]		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o1.ts	Method	TBLASTX:Soybean
Start	938	End	2199
GI	none	Score	105
Exons	938..1039, 940..1038, 1180..1278, 1191..1277, 1426..1494, 1433..1492, 1590..1703, 1599..1700, 1600..1707, 1789..1923, 1805..1939, 1829..1924, 1924..1944, 1925..1948, 1966..1998, 2017..2127, 2026..2127, 2027..2146, 2031..2132, 2033..2146, 2122..2199		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o1.gs	Method	GENSCAN
Start	940	End	5012
GI	none	Score	.69
Exons	940..1037, 1193..1277, 1804..1941, 2116..2241, 2449..2664, 3034..3189, 3287..3394, 3528..4066, 4472..4536, 4864..5012		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o1.np	Method	AAT/NAP
Start	943	End	5082
GI	6498428	Score	1579
Exons	943..1037, 1193..1277, 1426..1491, 1599..1700, 1804..1941, 2032..2241, 2449..2664, 3034..3189, 3287..3394, 3528..3596, 5055..5082		
GI Descrip.	(AP000815) Similar to Arabidopsis thaliana chromosome II BAC T27A16 sequence; hypothetical protein. (AC005496) [Oryza sativa]		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o4.gp	Method	AAT/GAP
Start	1461	End	2067
GI	2800235	Score	471
Exons	1461..1491, 1599..1700, 1804..1941, 2032..2067		
GI Descrip.	3582333 7.0e-40 (AC005496) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o3.tm	Method	TBLASTX:Maize
Start	1471	End	1873
GI	none	Score	38

Exons 1471..1491, 1472..1492, 1584..1709, 1602..1700, 1789..1872, 1805..1873

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o1.tc	Method	TBLASTX:Cress
Start	1617	End	2241
GI	none	Score	70
Exons	1617..1700, 1621..1707, 1789..1944, 1805..1942, 2026..2094, 2026..2241, 2045..2164		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o2.tm	Method	TBLASTX:Maize
Start	1892	End	2583
GI	none	Score	51
Exons	1892..1939, 1897..1944, 2020..2241, 2031..2243, 2036..2197, 2447..2581, 2449..2583, 2453..2581		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o2.ts	Method	TBLASTX:Soybean
Start	2449	End	3090
GI	none	Score	268
Exons	2449..2664, 2450..2665, 2450..2665, 2466..2669, 3010..3090, 3038..3085		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o2.tc	Method	TBLASTX:Cress
Start	2453	End	2635
GI	none	Score	210
Exons	2453..2626, 2458..2634, 2462..2635		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o1.tm	Method	TBLASTX:Maize
Start	2584	End	3977
GI	none	Score	85
Exons	2584..2667, 2585..2665, 3029..3190, 3033..3191, 3034..3192, 3274..3378, 3284..3397, 3288..3398, 3291..3395, 3292..3399, 3522..3839, 3523..3834, 3531..3839, 3840..3956, 3843..3977		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
Gene No.	61382	Strand	-
Start	940	End	5082
Name	OJ990429_12.9819.C30.o3.tc	Method	TBLASTX:Cress
Start	3034	End	3340
GI	none	Score	70
Exons	3034..3192, 3034..3192, 3035..3193, 3284..3340, 3291..3338		

Seq. No.	29709	Seq. ID	OJ990429_12.9819.C30
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Gene No. 61382 Strand -  
 Start 940 End 5082  
 Name OJ990429\_12.9819.C30.o5.gp Method AAT/GAP  
 Start 3261 End 4451  
 GI 10390\_1.R1084 Score 1394  
 Exons 3261..3394, 3528..4066, 4363..4451  
 GI Descrip. '2252847 4.0e-31 (AF013293) No definition line found  
 [Arabidopsis thaliana] >gi\_6049889\_gb\_AAF02804.1\_AF195115\_24  
 (AF195115) weak similarity to phthalate permease family  
 [Arabidopsis thaliana]'

Seq. No. 29710 Seq. ID OJ990429\_12.9819.C31  
 Gene No. 61383 Strand -  
 Start 84 End 2685  
 Name OJ990429\_12.9819.C31.o1.gp Method AAT/GAP  
 Start 84 End 2428  
 GI 31010\_1.R1084 Score 1184  
 Exons 84..366, 897..943, 1290..1374, 2081..2159, 2258..2428  
 GI Descrip. '629592/pir||S42651 1.0e-47 hypothetical protein - rape  
 >gi\_6065752\_emb CAB58175.1 (X74225) putative pod-specific  
 dehydrogenase SAC25 [Brassica napus]'

Seq. No. 29710 Seq. ID OJ990429\_12.9819.C31  
 Gene No. 61383 Strand -  
 Start 84 End 2685  
 Name OJ990429\_12.9819.C31.o1.np Method AAT/NAP  
 Start 202 End 2685  
 GI 629592 Score 348  
 Exons 202..396, 1275..1374, 2081..2159, 2258..2420, 2658..2685  
 GI Descrip. hypothetical protein - rape gi|6065752|emb|CAB58175.1| (X74225).  
 putative pod-specific dehydrogenase SAC25 [Brassica napus]

Seq. No. 29710 Seq. ID OJ990429\_12.9819.C31  
 Gene No. 61383 Strand -  
 Start 84 End 2685  
 Name OJ990429\_12.9819.C31.o1.gs Method GENSCAN  
 Start 208 End 2411  
 GI none Score .92  
 Exons 208..327, 897..943, 1290..1374, 2081..2159, 2258..2411

Seq. No. 29710 Seq. ID OJ990429\_12.9819.C31  
 Gene No. 61383 Strand -  
 Start 84 End 2685  
 Name OJ990429\_12.9819.C31.o2.tm Method TBLASTX:Maize  
 Start 208 End 374  
 GI none Score 156  
 Exons 208..372, 211..369, 212..373, 234..374

Seq. No. 29710 Seq. ID OJ990429\_12.9819.C31  
 Gene No. 61383 Strand -  
 Start 84 End 2685  
 Name OJ990429\_12.9819.C31.o2.ts Method TBLASTX:Soybean  
 Start 217 End 372  
 GI 5677940 Score 73  
 Exons 217..354, 217..372, 224..370  
 GI Descrip. 3451067/emb\_CAA20463.1\_ 2.0e-17 (AL031326) putative protein  
 [Arabidopsis thaliana]

Seq. No.	29710	Seq. ID	OJ990429_12.9819.C31
Gene No.	61383	Strand	-
Start	84	End	2685
Name	OJ990429_12.9819.C31.ol.tm	Method	TBLASTX:Maize
Start	897	End	2412
GI	none	Score	68
Exons	897..944, 897..944, 898..948, 1292..1375, 1292..1366, 2070..2150, 2081..2158, 2081..2158, 2085..2159, 2200..2412, 2255..2383, 2274..2390		

Seq. No.	29710	Seq. ID	OJ990429_12.9819.C31
Gene No.	61383	Strand	-
Start	84	End	2685
Name	OJ990429_12.9819.C31.ol.ts	Method	TBLASTX:Soybean
Start	2079	End	2414
GI	none	Score	89
Exons	2079..2144, 2079..2141, 2080..2142, 2081..2158, 2081..2158, 2200..2409, 2261..2383, 2263..2412, 2268..2414, 2280..2411		

Seq. No.	29711	Seq. ID	OJ990429_12.9819.C34
Gene No.	61384	Strand	-
Start	703	End	1733
Name	OJ990429_12.9819.C34.ol.gp	Method	AAT/GAP
Start	503	End	1443
GI	31010_1.R1084	Score	717
Exons	503..861, 1392..1443		
GI Descrip.	'629592/pir  S42651 1.0e-47 hypothetical protein - rape >gi_6065752_emb_CAB58175.1_ (X74225) putative pod-specific dehydrogenase SAC25 [Brassica napus]'		

Seq. No.	29711	Seq. ID	OJ990429_12.9819.C34
Gene No.	61384	Strand	-
Start	703	End	1733
Name	OJ990429_12.9819.C34.ol.np	Method	AAT/NAP
Start	700	End	1733
GI	3451067	Score	127
Exons	700..869, 1673..1733		
GI Descrip.	(AL031326) putative protein [Arabidopsis thaliana].		

Seq. No.	29711	Seq. ID	OJ990429_12.9819.C34
Gene No.	61384	Strand	-
Start	703	End	1733
Name	OJ990429_12.9819.C34.ol.gs	Method	GENSCAN
Start	703	End	889
GI	none	Score	.94
Exons	703..822, 887..889		

Seq. No.	29711	Seq. ID	OJ990429_12.9819.C34
Gene No.	61384	Strand	-
Start	703	End	1733
Name	OJ990429_12.9819.C34.ol.tm	Method	TBLASTX:Maize
Start	703	End	1443
GI	none	Score	152
Exons	703..867, 706..843, 707..868, 1392..1439, 1392..1439, 1393..1443		

Seq. No.	29711	Seq. ID	OJ990429_12.9819.C34
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Gene No.	61384	Strand	-
Start	703	End	1733
Name	OJ990429_12.9819.C34.o1.ts	Method	TBLASTX:Soybean
Start	712	End	867
GI	5677940	Score	73
Exons	712..849, 712..867, 719..865		
GI Descrip.	3451067/emb_CAA20463.1_ 2.0e-17 (AL031326) putative protein [Arabidopsis thaliana]		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61385	Strand	+
Start	1668	End	2129
Name	OJ990429_12.9819.C35.o2.gs	Method	GENSCAN
Start	1668	End	2129
GI	none	Score	.97
Exons	1668..2129		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61386	Strand	-
Start	1	End	2149
Name	OJ990429_12.9819.C35.o1.np	Method	AAT/NAP
Start	1	End	2048
GI	3451068	Score	610
Exons	1..37, 145..223, 322..475, 779..909, 1711..2048		
GI Descrip.	(AL031326) putative protein [Arabidopsis thaliana]		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61386	Strand	-
Start	1	End	2149
Name	OJ990429_12.9819.C35.o1.gp	Method	AAT/GAP
Start	124	End	492
GI	31010 1.R1084	Score	417
Exons	124..223, 322..492		
GI Descrip.	'629592/pir  S42651 1.0e-47 hypothetical protein - rape >gi_6065752_emb_CAB58175.1 (X74225) putative pod-specific dehydrogenase SAC25 [Brassica napus]'		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61386	Strand	-
Start	1	End	2149
Name	OJ990429_12.9819.C35.o1.gs	Method	GENSCAN
Start	145	End	440
GI	none	Score	.42
Exons	145..223, 322..440		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61386	Strand	-
Start	1	End	2149
Name	OJ990429_12.9819.C35.o2.gp	Method	AAT/GAP
Start	769	End	2149
GI	31959 1.R1084	Score	1006
Exons	769..858, 1711..2149		
GI Descrip.	'3451068/emb CAA20464.1  3.0e-43 (AL031326) putative protein [Arabidopsis thaliana]'		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-

Start	3142	End	5346
Name	OJ990429_12.9819.C35.o1.tm	Method	TBLASTX:Maize
Start	134	End	2072
GI	none	Score	70
Exons	134..214, 144..212, 145..222, 145..222, 149..223, 264..476, 319..447, 338..454, 777..857, 778..864, 778..858, 1710..2072, 1711..1758, 1815..1916, 1852..2058		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o1.ts	Method	TBLASTX:Soybean
Start	417	End	2081
GI	none	Score	70
Exons	417..476, 777..857, 778..864, 1710..2081, 1852..2040		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o1.tc	Method	TBLASTX:Cress
Start	777	End	2028
GI	none	Score	89
Exons	777..857, 778..864, 1710..2027, 1870..2028		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o2.tm	Method	TBLASTX:Maize
Start	3037	End	3989
GI	none	Score	124
Exons	3037..3078, 3315..3428, 3316..3423, 3316..3444, 3478..3537, 3605..3676, 3606..3674, 3695..3853, 3696..3854, 3697..3852, 3843..3989, 3854..3988		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o3.gs	Method	GENSCAN
Start	3142	End	5346
GI	none	Score	.88
Exons	3142..3239, 3316..4223, 4344..4450, 4508..4714, 4800..4904, 4996..5049, 5341..5346		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o3.tm	Method	TBLASTX:Maize
Start	4019	End	4634
GI	none	Score	121
Exons	4019..4225, 4019..4225, 4338..4424, 4339..4428, 4343..4441, 4343..4429, 4505..4633, 4506..4634		

Seq. No.	29712	Seq. ID	OJ990429_12.9819.C35
Gene No.	61387	Strand	-
Start	3142	End	5346
Name	OJ990429_12.9819.C35.o2.ts	Method	TBLASTX:Soybean
Start	4142	End	4901

GI none Score 96  
Exons 4142..4225, 4343..4429, 4346..4420, 4502..4603, 4506..4604, 4625..4714, 4824..4901

Seq. No. 29712 Seq. ID OJ990429\_12.9819.C35  
Gene No. 61387 Strand -  
Start 3142 End 5346  
Name OJ990429\_12.9819.C35.o3.gp Method AAT/GAP  
Start 4153 End 5049  
GI 11896\_1.R1084 Score 894  
Exons 4153..4223, 4344..4429, 4508..4714, 4800..4904, 4996..5049  
GI Descrip. '2980789/emb|CAA18165.1| 6.0e-42 (AL022197) hypothetical protein [Arabidopsis thaliana]'

Seq. No. 29712 Seq. ID OJ990429\_12.9819.C35  
Gene No. 61387 Strand -  
Start 3142 End 5346  
Name OJ990429\_12.9819.C35.o4.tm Method TBLASTX:Maize  
Start 4637 End 5040  
GI none Score 49  
Exons 4637..4687, 4640..4684, 4798..4905, 4798..4905, 4799..4909, 4800..4907, 4994..5032, 5011..5040

Seq. No. 29713 Seq. ID OJ990429\_12.9819.C36  
Gene No. 61388 Strand +  
Start 1698 End 2233  
Name OJ990429\_12.9819.C36.o1.gp Method AAT/GAP  
Start 1698 End 2233  
GI uC-osrocyp028g09a1 Score 1036  
Exons 1698..2233  
GI Descrip. '3386604 9.0e-09 (AC004665) putative protein kinase [Arabidopsis thaliana]'

Seq. No. 29713 Seq. ID OJ990429\_12.9819.C36  
Gene No. 61389 Strand +  
Start 6955 End 7318  
Name OJ990429\_12.9819.C36.o3.gp Method AAT/GAP  
Start 6955 End 7318  
GI none Score 724  
Exons 6955..7318

Seq. No. 29713 Seq. ID OJ990429\_12.9819.C36  
Gene No. 61390 Strand +  
Start 15984 End 18663  
Name OJ990429\_12.9819.C36.o5.gp Method AAT/GAP  
Start 15813 End 18663  
GI 2428738 Score 667  
Exons 15813..16019, 18504..18663

Seq. No. 29713 Seq. ID OJ990429\_12.9819.C36  
Gene No. 61390 Strand +  
Start 15984 End 18663  
Name OJ990429\_12.9819.C36.o4.gs Method GENSCAN  
Start 15984 End 17209  
GI none Score .99  
Exons 15984..16019, 16784..17003, 17067..17209

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61391	Strand	-
Start	1946	End	5794
Name	OJ990429_12.9819.C36.o1.np	Method	AAT/NAP
Start	1911	End	4871
GI	5295966	Score	500
Exons	1911..2680, 2784..2899, 4812..4871		
GI Descrip.	(AB026295) Similar to Glycine max gmsti mRNA.(X79770) [Oryza sativa]		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61391	Strand	-
Start	1946	End	5794
Name	OJ990429_12.9819.C36.o2.gs	Method	GENSCAN
Start	1946	End	5547
GI	none	Score	.89
Exons	1946..2680, 2784..3116, 3288..3437, 3752..3814, 3922..4075, 4330..4424, 4854..4975, 5406..5547		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61391	Strand	-
Start	1946	End	5794
Name	OJ990429_12.9819.C36.o2.gp	Method	AAT/GAP
Start	4354	End	5794
GI	uC-osrocyp028g09b1	Score	807
Exons	4354..4424, 4854..4975, 5406..5575, 5703..5794		
GI Descrip.	'3386604 2.0e-11 (AC004665) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61392	Strand	-
Start	7393	End	26919
Name	OJ990429_12.9819.C36.o3.gs	Method	GENSCAN
Start	7393	End	11804
GI	none	Score	.92
Exons	7393..7581, 8157..8924, 9042..9509, 9752..9892, 10172..10361, 10476..10583, 10881..11002, 11150..11338, 11724..11804		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61392	Strand	-
Start	7393	End	26919
Name	OJ990429_12.9819.C36.o2.np	Method	AAT/NAP
Start	7399	End	26919
GI	3386604	Score	1154
Exons	7399..7581, 8157..8924, 9042..9509, 9752..9829, 10039..10357, 10847..11002, 11150..11271, 11612..11741, 26786..26919		
GI Descrip.	(AC004665) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61392	Strand	-
Start	7393	End	26919
Name	OJ990429_12.9819.C36.o4.gp	Method	AAT/GAP
Start	9479	End	10984
GI	none	Score	1058
Exons	9479..9509, 9752..9892, 10172..10361, 10472..10576, 10881..10984		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
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Gene No.	61392	Strand	-
Start	7393	End	26919
Name	OJ990429_12.9819.C36.o5.gs	Method	GENSCAN
Start	17999	End	22602
GI	none	Score	.95
Exons	17999..18187, 18488..19216, 19316..19786, 19990..20121, 20235..20619, 20743..20847, 21252..21364, 21652..21776, 22275..22602		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o1.tm	Method	TBLASTX:Maize
Start	2045	End	19219
GI	none	Score	132
Exons	2045..2347, 2115..2348, 2384..2554, 2385..2552, 2564..2683, 2565..2666, 8163..8201, 8256..8927, 8257..8925, 18495..18524, 18548..19219, 18549..18857, 18912..19217		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o1.ts	Method	TBLASTX:Soybean
Start	2045	End	19085
GI	none	Score	82
Exons	2045..2332, 2124..2375, 2363..2560, 7411..7587, 7412..7582, 8157..8189, 8256..8795, 8320..8787, 18011..18193, 18011..18196, 18030..18197, 18488..18520, 18581..19078, 18585..18680, 18711..18854, 18966..19085		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o1.tc	Method	TBLASTX:Cress
Start	2243	End	19483
GI	none	Score	38
Exons	2243..2320, 2369..2560, 2775..2900, 8454..8561, 8619..8783, 8793..8855, 8838..8927, 8994..9155, 18746..18859, 18908..19075, 19091..19147, 19154..19219, 19313..19435, 19442..19483		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o1.tw	Method	TBLASTX:Wheat
Start	2393	End	19195
GI	none	Score	63
Exons	2393..2548, 2421..2546, 2570..2656, 2571..2657, 8628..8900, 8629..8901, 18920..19192, 18923..19051, 18960..19193, 19133..19195		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o2.ts	Method	TBLASTX:Soybean
Start	2564	End	19483
GI	none	Score	88
Exons	2564..2683, 2565..2681, 2775..2954, 2782..2946, 8808..8927,		

8809..8925, 9019..9108, 9033..9206, 19100..19219, 19101..19217,  
19313..19483, 19359..19472

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o2.tm	Method	TBLASTX:Maize
Start	2781	End	19492
GI	none	Score	179
Exons	2781..2966, 2782..2967, 2782..2967, 19313..19492		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o2.tc	Method	TBLASTX:Cress
Start	7408	End	18173
GI	none	Score	122
Exons	7408..7560, 7408..7566, 7409..7567, 18020..18172, 18021..18173		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o3.tm	Method	TBLASTX:Maize
Start	7408	End	18190
GI	none	Score	78
Exons	7408..7491, 7415..7489, 7492..7584, 7502..7582, 18005..18118, 18021..18110, 18098..18190, 18099..18188		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o3.np	Method	AAT/NAP
Start	30377	End	31356
GI	2832645	Score	129
Exons	30377..30622, 31231..31356		
GI Descrip.	(AL021710) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29713	Seq. ID	OJ990429_12.9819.C36
Gene No.	61393	Strand	-
Start	30377	End	31356
Name	OJ990429_12.9819.C36.o7.gs	Method	GENSCAN
Start	31142	End	31312
GI	none	Score	.92
Exons	31142..31167, 31231..31312		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o1.np	Method	AAT/NAP
Start	85	End	6604
GI	1706103	Score	744
Exons	85..233, 1199..1367, 1451..1547, 1617..1743, 1825..1940, 2320..2444, 2520..2650, 3083..3245, 3618..3870, 3974..4132, 4327..4422, 4518..4616, 4901..5074, 6512..6604		
GI Descrip.	CLEAVAGE AND POLYADENYLATION SPECIFICITY FACTOR, 100 KD SUBUNIT (CPSF 100 KD SUBUNIT) gi 1363022 pir  A56351 cleavage and polyadenylation specificity factor 100K chain - bovine		

gi|599683|emb|CAA53535| (X75931) Cleavage and Polyadenylation  
specificity factor (CPSF) 100kD subunit [Bos taurus]

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o3.tm	Method	TBLASTX:Maize
Start	85	End	1299
GI	none	Score	272
Exons	85..264, 85..147, 87..254, 1197..1298, 1199..1297, 1200..1298, 1201..1299		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o1.tc	Method	TBLASTX:Cress
Start	85	End	1924
GI	none	Score	206
Exons	85..264, 87..254, 1188..1286, 1197..1367, 1199..1360, 1448..1552, 1450..1533, 1582..1743, 1604..1744, 1637..1744, 1639..1761, 1815..1892, 1822..1923, 1823..1924		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o1.gs	Method	GENSCAN
Start	1199	End	6168
GI	none	Score	.91
Exons	1199..1367, 1451..1551, 1825..1940, 2320..2414, 2499..2650, 3018..3075, 3138..3245, 3618..3870, 3963..4144, 4327..4422, 4518..4616, 4901..5032, 5243..5287, 6004..6168		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o2.tm	Method	TBLASTX:Maize
Start	1619	End	3066
GI	none	Score	48
Exons	1619..1651, 1619..1651, 1621..1653, 1641..1742, 1648..1743, 1649..1744, 1822..1938, 1823..1939, 1824..1949, 2318..2410, 2319..2411, 2325..2411, 2446..2592, 2499..2618, 2499..2591, 2580..2651, 2603..2656, 3022..3066		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o2.ts	Method	TBLASTX:Soybean
Start	2318	End	2656
GI	none	Score	101
Exons	2318..2410, 2319..2411, 2460..2654, 2471..2656		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o2.tc	Method	TBLASTX:Cress
Start	3135	End	3854
GI	none	Score	127

Exons 3135..3245, 3137..3241, 3614..3703, 3615..3854

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o1.ts	Method	TBLASTX:Soybean
Start	3756	End	6165
GI	none	Score	84
Exons	3756..3863, 3810..3863, 3962..4141, 3964..4140, 4333..4449, 4517..4618, 4518..4619, 4897..5034, 4900..5034, 4901..5068, 5237..5290, 6001..6093, 6003..6092, 6052..6165, 6060..6161		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o1.tm	Method	TBLASTX:Maize
Start	3792	End	4395
GI	none	Score	93
Exons	3792..3869, 3803..3856, 3963..4085, 3967..4140, 3968..4141, 3969..4145, 4327..4395		

Seq. No.	29714	Seq. ID	OJ990429_12.9819.C37
Gene No.	61394	Strand	+
Start	85	End	6604
Name	OJ990429_12.9819.C37.o3.tc	Method	TBLASTX:Cress
Start	4530	End	6177
GI	none	Score	128
Exons	4530..4619, 4532..4618, 4900..5064, 4901..5068, 5237..5290, 6001..6078, 6003..6077, 6054..6161, 6055..6177		

Seq. No.	29715	Seq. ID	OJ990429_12.9819.C38
Gene No.	61395	Strand	-
Start	284	End	601
Name	OJ990429_12.9819.C38.o1.gs	Method	GENSCAN
Start	284	End	601
GI	none	Score	.59
Exons	284..464, 493..601		

Seq. No.	29716	Seq. ID	OJ990429_12.9819.C42
Gene No.	61396	Strand	+
Start	1	End	815
Name	OJ990429_12.9819.C42.o1.np	Method	AAT/NAP
Start	1	End	815
GI	3386604	Score	480
Exons	1..344, 462..815		
GI Descrip.	(AC004665) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	29716	Seq. ID	OJ990429_12.9819.C42
Gene No.	61396	Strand	+
Start	1	End	815
Name	OJ990429_12.9819.C42.o1.tm	Method	TBLASTX:Maize
Start	84	End	704
GI	none	Score	125
Exons	84..353, 459..704, 461..574		

Seq. No.	29716	Seq. ID	OJ990429_12.9819.C42
Gene No.	61396	Strand	+



Start 1  
 Name OJ990429\_12.9819.C42.o1.gs  
 Start 87  
 GI none  
 Exons 87..344, 462..756

End 815  
 Method GENSCAN  
 End 756  
 Score .93

Seq. No. 29716  
 Gene No. 61396  
 Start 1  
 Name OJ990429\_12.9819.C42.o1.tc  
 Start 452  
 GI none  
 Exons 452..724, 462..725

Seq. ID OJ990429\_12.9819.C42  
 Strand +  
 End 815  
 Method TBLASTX:Cress  
 End 725  
 Score 239

Seq. No. 29716  
 Gene No. 61396  
 Start 1  
 Name OJ990429\_12.9819.C42.o1.ts  
 Start 459  
 GI none  
 Exons 459..701, 459..698, 461..703

Seq. ID OJ990429\_12.9819.C42  
 Strand +  
 End 815  
 Method TBLASTX:Soybean  
 End 703  
 Score 302

Seq. No. 29716  
 Gene No. 61396  
 Start 1  
 Name OJ990429\_12.9819.C42.o1.tw  
 Start 485  
 GI none  
 Exons 485..718, 486..758

Seq. ID OJ990429\_12.9819.C42  
 Strand +  
 End 815  
 Method TBLASTX:Wheat  
 End 758  
 Score 228

Seq. No. 29717  
 Gene No. 61397  
 Start 116  
 Name OJ990319\_04.9819.C1.o1.gs  
 Start 116  
 GI none  
 Exons 116..319, 377..695

Seq. ID OJ990319\_04.9819.C1  
 Strand -  
 End 695  
 Method GENSCAN  
 End 695  
 Score .49

Seq. No. 29718  
 Gene No. 61398  
 Start 726  
 Name OJ990319\_04.9819.C2.o1.gp  
 Start 726  
 GI none  
 Exons 726..876

Seq. ID OJ990319\_04.9819.C2  
 Strand +  
 End 876  
 Method AAT/GAP  
 End 876  
 Score 245

Seq. No. 29719  
 Gene No. 61399  
 Start 725  
 Name OJ990319\_04.9819.C3.o2.gp  
 Start 725  
 GI uC-osf1M202096g03b1  
 Exons 725..1231  
 GI Descrip. '2505877/emb|CAA73306| 6.0e-14 (Y12776) dehydrogenase [Arabidopsis thaliana]'

Seq. ID OJ990319\_04.9819.C3  
 Strand +  
 End 1231  
 Method AAT/GAP  
 End 1231  
 Score 940

Seq. No. 29719

Seq. ID OJ990319\_04.9819.C3

Gene No.	61400	Strand	-
Start	319	End	2835
Name	OJ990319_04.9819.C3.o1.gs	Method	GENSCAN
Start	319	End	1314
GI	none	Score	.5
Exons	319..351, 493..540, 657..1314		
Seq. No.	29719	Seq. ID	OJ990319_04.9819.C3
Gene No.	61400	Strand	-
Start	319	End	2835
Name	OJ990319_04.9819.C3.o1.np	Method	AAT/NAP
Start	473	End	2835
GI	2505878	Score	498
Exons	473..540, 657..1500, 2643..2835		
GI Descrip.	(Y12776) gene5; most likely [Arabidopsis thaliana]		
Seq. No.	29719	Seq. ID	OJ990319_04.9819.C3
Gene No.	61400	Strand	-
Start	319	End	2835
Name	OJ990319_04.9819.C3.o1.gp	Method	AAT/GAP
Start	493	End	739
GI	uC-osflcyp132g04a1	Score	197
Exons	493..540, 657..739		
GI Descrip.	'2505877/emb CAA73306  7.0e-36 (Y12776) dehydrogenase [Arabidopsis thaliana]'		
Seq. No.	29719	Seq. ID	OJ990319_04.9819.C3
Gene No.	61400	Strand	-
Start	319	End	2835
Name	OJ990319_04.9819.C3.o1.tm	Method	TBLASTX:Maize
Start	760	End	989
GI	none	Score	264
Exons	760..978, 762..989		
Seq. No.	29719	Seq. ID	OJ990319_04.9819.C3
Gene No.	61400	Strand	-
Start	319	End	2835
Name	OJ990319_04.9819.C3.o2.tm	Method	TBLASTX:Maize
Start	1131	End	1542
GI	none	Score	67
Exons	1131..1256, 1137..1238, 1259..1432, 1281..1433, 1294..1434, 1321..1542		
Seq. No.	29720	Seq. ID	OJ990319_04.9819.C5
Gene No.	61401	Strand	+
Start	625	End	1630
Name	OJ990319_04.9819.C5.o1.gs	Method	GENSCAN
Start	625	End	1630
GI	none	Score	.77
Exons	625..817, 1300..1630		
Seq. No.	29721	Seq. ID	OJ990319_04.9819.C6
Gene No.	61402	Strand	+
Start	240	End	730
Name	OJ990319_04.9819.C6.o1.np	Method	AAT/NAP
Start	240	End	730
GI	2632252	Score	168

Exons 240..418, 655..730  
GI Descrip. (Y12464) serine/threonine kinase [Sorghum bicolor]

Seq. No.	29721	Seq. ID	OJ990319_04.9819.C6
Gene No.	61402	Strand	+
Start	240	End	730
Name	OJ990319_04.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	248	End	424
GI	none	Score	59
Exons	248..424, 254..310, 267..419		

Seq. No.	29721	Seq. ID	OJ990319_04.9819.C6
Gene No.	61402	Strand	+
Start	240	End	730
Name	OJ990319_04.9819.C6.o1.ts	Method	TBLASTX:Soybean
Start	251	End	419
GI	none	Score	183
Exons	251..409, 267..419		

Seq. No.	29721	Seq. ID	OJ990319_04.9819.C6
Gene No.	61402	Strand	+
Start	240	End	730
Name	OJ990319_04.9819.C6.o1.gs	Method	GENSCAN
Start	254	End	532
GI	none	Score	.81
Exons	254..410, 461..532		

Seq. No.	29721	Seq. ID	OJ990319_04.9819.C6
Gene No.	61402	Strand	+
Start	240	End	730
Name	OJ990319_04.9819.C6.o1.tc	Method	TBLASTX:Cress
Start	263	End	419
GI	none	Score	183
Exons	263..409, 267..419		

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61403	Strand	+
Start	300	End	6854
Name	OJ990319_04.9819.C8.o1.gs	Method	GENSCAN
Start	300	End	5557
GI	none	Score	.59
Exons	300..428, 1339..1548, 1588..1709, 1759..1881, 1972..2085, 3229..3368, 3442..3529, 4314..4387, 4804..4887, 4927..5557		

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61403	Strand	+
Start	300	End	6854
Name	OJ990319_04.9819.C8.o1.gp	Method	AAT/GAP
Start	1303	End	1721
GI	3061057	Score	544
Exons	1303..1548, 1633..1721		
GI Descrip.	4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61403	Strand	+
Start	300	End	6854

Name	OJ990319_04.9819.C8.o1.np	Method	AAT/NAP
Start	1371	End	6854
GI	4263821	Score	823
Exons	1371..1548, 1612..1709, 1798..1881, 1972..2120, 3229..3368, 3442..3529, 4314..4387, 6336..6520, 6619..6854		
GI Descrip.	(AC006067) hypothetical protein [Arabidopsis thaliana]		

  

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61403	Strand	+
Start	300	End	6854
Name	OJ990319_04.9819.C8.o2.gp	Method	AAT/GAP
Start	3421	End	6724
GI	LIB3432-012-P1-K1-G5	Score	828
Exons	3421..3529, 4314..4387, 6336..6529, 6619..6724		
GI Descrip.	'4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]'		

  

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o1.ts	Method	TBLASTX:Soybean
Start	1367	End	3532
GI	none	Score	108
Exons	1367..1528, 1368..1547, 1643..1708, 1647..1709, 1795..1923, 1797..1880, 1957..2064, 2059..2088, 2751..2861, 3226..3372, 3228..3329, 3229..3369, 3434..3532, 3457..3531		

  

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o2.tm	Method	TBLASTX:Maize
Start	1448	End	2016
GI	none	Score	65
Exons	1448..1483, 1448..1546, 1494..1547, 1634..1657, 1634..1708, 1647..1709, 1795..1923, 1797..1922, 1941..2015, 1957..2016, 1958..2011, 1963..2016		

  

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o1.tc	Method	TBLASTX:Cress
Start	1995	End	3532
GI	none	Score	102
Exons	1995..2084, 1996..2088, 2753..2860, 2757..2861, 3224..3328, 3226..3372, 3229..3366, 3371..3532, 3437..3532		

  

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o1.tm	Method	TBLASTX:Maize
Start	2757	End	6823
GI	none	Score	134
Exons	2757..2861, 2768..2860, 3226..3366, 3227..3385, 3228..3365, 3229..3369, 3398..3532, 3436..3531, 3444..3533, 3445..3534, 4271..4387, 4314..4388, 4317..4388, 4318..4395, 6333..6446, 6333..6446, 6334..6480, 6334..6447, 6481..6534, 6638..6697, 6638..6712, 6640..6714, 6645..6716, 6693..6821, 6695..6823,		

6696..6821

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o1.tw	Method	TBLASTX:Wheat
Start	3304	End	3532
GI	none	Score	111
Exons	3304..3399, 3304..3384, 3381..3530, 3410..3532, 3415..3531		

Seq. No.	29722	Seq. ID	OJ990319_04.9819.C8
Gene No.	61404	Strand	-
Start	6217	End	6823
Name	OJ990319_04.9819.C8.o2.gs	Method	GENSCAN
Start	6217	End	6366
GI	none	Score	.64
Exons	6217..6366		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.np	Method	AAT/NAP
Start	326	End	1148
GI	6907107	Score	575
Exons	326..516, 612..682, 781..1148		
GI Descrip.	(AP001129) ESTs AU029388(E30287),D49277(S16474) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F16G20, picA protein. (AL031326) [Oryza sativa]		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.gp	Method	AAT/GAP
Start	364	End	708
GI	uC-osflcyp086g06b1	Score	390
Exons	364..516, 612..708		
GI Descrip.	'3738338 9.0e-52 (AC005170) putative polygalacturonase [Arabidopsis thaliana]'		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.tc	Method	TBLASTX:Cress
Start	365	End	681
GI	none	Score	162
Exons	365..517, 598..681		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o2.tm	Method	TBLASTX:Maize
Start	365	End	520
GI	none	Score	186
Exons	365..517, 365..520		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
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Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.ts	Method	TBLASTX:Soybean
Start	365	End	1061
GI	none	Score	188
Exons	365..511, 365..520, 598..681, 609..680, 779..1060, 780..1061		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.gs	Method	GENSCAN
Start	368	End	1058
GI	none	Score	.84
Exons	368..516, 522..682, 781..1058		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o1.tm	Method	TBLASTX:Maize
Start	609	End	1061
GI	none	Score	101
Exons	609..680, 610..681, 646..708, 779..1060, 780..1061		

Seq. No.	29723	Seq. ID	OJ990319_04.9819.C9
Gene No.	61405	Strand	+
Start	326	End	1148
Name	OJ990319_04.9819.C9.o2.tc	Method	TBLASTX:Cress
Start	779	End	1054
GI	none	Score	186
Exons	779..1054, 780..983		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61406	Strand	+
Start	358	End	809
Name	OJ990319_04.9819.C10.o1.gp	Method	AAT/GAP
Start	358	End	809
GI	904_1.R1084	Score	847
Exons	358..809		
GI Descrip.	'3777600 1.0e-131 (AF095708) 50S ribosomal protein L5 [Oryza sativa]'		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61407	Strand	-
Start	514	End	887
Name	OJ990319_04.9819.C10.o1.tc	Method	TBLASTX:Cress
Start	512	End	808
GI	none	Score	42
Exons	512..571, 514..585, 595..807, 665..808		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61407	Strand	-
Start	514	End	887
Name	OJ990319_04.9819.C10.o1.gs	Method	GENSCAN
Start	514	End	798
GI	none	Score	.69
Exons	514..798		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61407	Strand	-
Start	514	End	887
Name	OJ990319_04.9819.C10.o1.np	Method	AAT/NAP
Start	517	End	887
GI	3777600	Score	497
Exons	517..887		
GI Descrip.	(AF095708) 50S ribosomal protein L5 [Oryza sativa]		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61407	Strand	-
Start	514	End	887
Name	OJ990319_04.9819.C10.o1.tm	Method	TBLASTX:Maize
Start	520	End	807
GI	none	Score	107
Exons	520..807, 525..638, 529..807		

Seq. No.	29724	Seq. ID	OJ990319_04.9819.C10
Gene No.	61407	Strand	-
Start	514	End	887
Name	OJ990319_04.9819.C10.o1.ts	Method	TBLASTX:Soybean
Start	520	End	809
GI	none	Score	151
Exons	520..807, 521..808, 624..809		

Seq. No.	29725	Seq. ID	OJ990319_04.9819.C11
Gene No.	61408	Strand	+
Start	1	End	823
Name	OJ990319_04.9819.C11.o1.np	Method	AAT/NAP
Start	1	End	823
GI	5870598	Score	464
Exons	1..111, 217..275, 360..581, 691..823		
GI Descrip.	(Y14809) beta-carotene hydroxylase [Lycopersicon esculentum]		

Seq. No.	29725	Seq. ID	OJ990319_04.9819.C11
Gene No.	61408	Strand	+
Start	1	End	823
Name	OJ990319_04.9819.C11.o1.tc	Method	TBLASTX:Cress
Start	2	End	574
GI	none	Score	132
Exons	2..121, 3..116, 218..277, 219..278, 353..412, 414..566, 416..574		

Seq. No.	29725	Seq. ID	OJ990319_04.9819.C11
Gene No.	61408	Strand	+
Start	1	End	823
Name	OJ990319_04.9819.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	574
GI	none	Score	76
Exons	2..115, 2..115, 3..116, 203..277, 210..278, 210..278, 353..574, 354..566		

Seq. No.	29725	Seq. ID	OJ990319_04.9819.C11
Gene No.	61408	Strand	+
Start	1	End	823
Name	OJ990319_04.9819.C11.o1.gs	Method	GENSCAN
Start	42	End	566
GI	none	Score	.75

Exons 42..114, 184..275, 360..566

Seq. No.	29725	Seq. ID	OJ990319_04.9819.C11
Gene No.	61408	Strand	+
Start	1	End	823
Name	OJ990319_04.9819.C11.o1.ts	Method	TBLASTX:Soybean
Start	371	End	574
GI	none	Score	260
Exons	371..574, 411..566		

Seq. No.	29726	Seq. ID	OJ990319_04.9819.C13
Gene No.	61409	Strand	-
Start	108	End	1171
Name	OJ990319_04.9819.C13.o1.np	Method	AAT/NAP
Start	108	End	1171
GI	401213	Score	225
Exons	108..261, 589..714, 919..1171		
GI Descrip.	ANTHRANILATE PHOSPHORIBOSYLTRANSFERASE, CHLOROPLAST PRECURSOR gi 166792 (M96073) phosphoribosylanthranilate transferase [Arabidopsis thaliana] gi 445600 prf  1909347A phosphoribosylanthranilate transferase [Arabidopsis thaliana]		

Seq. No.	29726	Seq. ID	OJ990319_04.9819.C13
Gene No.	61409	Strand	-
Start	108	End	1171
Name	OJ990319_04.9819.C13.o1.gs	Method	GENSCAN
Start	126	End	738
GI	none	Score	.84
Exons	126..245, 589..738		

Seq. No.	29726	Seq. ID	OJ990319_04.9819.C13
Gene No.	61409	Strand	-
Start	108	End	1171
Name	OJ990319_04.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	127	End	734
GI	none	Score	82
Exons	127..192, 135..194, 587..712, 587..712, 589..714, 589..714, 592..729, 592..726, 594..734, 649..729		

Seq. No.	29726	Seq. ID	OJ990319_04.9819.C13
Gene No.	61409	Strand	-
Start	108	End	1171
Name	OJ990319_04.9819.C13.o1.gp	Method	AAT/GAP
Start	139	End	727
GI	LIB3434-026-P1-K1-E6	Score	428
Exons	139..261, 589..727		
GI Descrip.	'1389768 1.0e-34 (U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]'		

Seq. No.	29727	Seq. ID	OJ990319_04.9819.C15
Gene No.	61410	Strand	+
Start	247	End	5572
Name	OJ990319_04.9819.C15.o1.gs	Method	GENSCAN
Start	247	End	5572
GI	none	Score	.55
Exons	247..292, 1209..1357, 2030..2050, 2796..2925, 3457..3553, 5268..5298, 5555..5572		



Seq. No.	29727	Seq. ID	OJ990319_04.9819.C15
Gene No.	61411	Strand	+
Start	6452	End	7174
Name	OJ990319_04.9819.C15.o2.gs	Method	GENSCAN
Start	6452	End	7174
GI	none	Score	.63
Exons	6452..6522, 6583..6697, 6876..6917, 7139..7174		

Seq. No.	29727	Seq. ID	OJ990319_04.9819.C15
Gene No.	61412	Strand	-
Start	7376	End	8456
Name	OJ990319_04.9819.C15.o3.gs	Method	GENSCAN
Start	7376	End	8456
GI	none	Score	.7
Exons	7376..7392, 7623..7817, 8047..8230, 8409..8456		

Seq. No.	29728	Seq. ID	OJ990319_04.9819.C19
Gene No.	61413	Strand	+
Start	174	End	309
Name	OJ990319_04.9819.C19.o1.tc	Method	TBLASTX:Cress
Start	65	End	305
GI	none	Score	272
Exons	65..151, 66..299, 129..305, 178..300		

Seq. No.	29728	Seq. ID	OJ990319_04.9819.C19
Gene No.	61413	Strand	+
Start	174	End	309
Name	OJ990319_04.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	65	End	309
GI	none	Score	64
Exons	65..112, 69..113, 125..160, 126..299, 129..308, 178..309		

Seq. No.	29728	Seq. ID	OJ990319_04.9819.C19
Gene No.	61413	Strand	+
Start	174	End	309
Name	OJ990319_04.9819.C19.o1.ts	Method	TBLASTX:Soybean
Start	126	End	296
GI	none	Score	223
Exons	126..296		

Seq. No.	29728	Seq. ID	OJ990319_04.9819.C19
Gene No.	61413	Strand	+
Start	174	End	309
Name	OJ990319_04.9819.C19.o1.gs	Method	GENSCAN
Start	174	End	298
GI	none	Score	.54
Exons	174..298		

Seq. No.	29729	Seq. ID	OJ990319_04.9819.C20
Gene No.	61414	Strand	-
Start	78	End	171
Name	OJ990319_04.9819.C20.o1.gs	Method	GENSCAN
Start	78	End	171
GI	none	Score	.62
Exons	78..171		

Seq. No. 29730  
Gene No. 61415  
Start 408  
Name OJ990319\_04.9819.C21.o1.gs  
Start 408  
GI none  
Exons 408..541, 576..735

Seq. ID OJ990319\_04.9819.C21  
Strand +  
End 735  
Method GENSCAN  
End 735  
Score .66

Seq. No. 29730  
Gene No. 61416  
Start 822  
Name OJ990319\_04.9819.C21.o1.gp  
Start 822  
GI none  
Exons 822..1128

Seq. ID OJ990319\_04.9819.C21  
Strand +  
End 1128  
Method AAT/GAP  
End 1128  
Score 576

Seq. No. 29731  
Gene No. 61417  
Start 253  
Name OJ990319\_04.9819.C22.o1.gs  
Start 253  
GI none  
Exons 253..345, 459..648

Seq. ID OJ990319\_04.9819.C22  
Strand -  
End 648  
Method GENSCAN  
End 648  
Score .62

Seq. No. 29732  
Gene No. 61418  
Start 643  
Name OJ990319\_04.9819.C24.o1.gs  
Start 643  
GI none  
Exons 643..715, 829..955, 1006..1011

Seq. ID OJ990319\_04.9819.C24  
Strand +  
End 1011  
Method GENSCAN  
End 1011  
Score .4

Seq. No. 29732  
Gene No. 61419  
Start 2541  
Name OJ990319\_04.9819.C24.o2.gs  
Start 2541  
GI none  
Exons 2541..2702, 3760..3940, 4038..4309, 5470..5651

Seq. ID OJ990319\_04.9819.C24  
Strand +  
End 5789  
Method GENSCAN  
End 5651  
Score .7

Seq. No. 29732  
Gene No. 61419  
Start 2541  
Name OJ990319\_04.9819.C24.o1.np  
Start 3775  
GI 2961375  
Exons 3775..3940, 4038..4309, 5470..5789  
GI Descrip. (AL022141) NAM like protein [Arabidopsis thaliana]

Seq. ID OJ990319\_04.9819.C24  
Strand +  
End 5789  
Method AAT/NAP  
End 5789  
Score 724

Seq. No. 29732  
Gene No. 61419  
Start 2541  
Name OJ990319\_04.9819.C24.o1.tm  
Start 3780  
GI none  
Exons 3780..3866, 3780..3866, 3784..3957, 4067..4300, 4072..4299, 4189..4308

Seq. ID OJ990319\_04.9819.C24  
Strand +  
End 5789  
Method TBLASTX:Maize  
End 4308  
Score 62

Seq. No.	29732	Seq. ID	OJ990319_04.9819.C24
Gene No.	61419	Strand	+
Start	2541	End	5789
Name	OJ990319_04.9819.C24.o1.tc	Method	TBLASTX:Cress
Start	3789	End	4270
GI	none	Score	216
Exons	3789..3881, 3793..3939, 4034..4180, 4048..4173, 4196..4270, 4198..4269, 4199..4270		

Seq. No.	29732	Seq. ID	OJ990319_04.9819.C24
Gene No.	61419	Strand	+
Start	2541	End	5789
Name	OJ990319_04.9819.C24.o1.ts	Method	TBLASTX:Soybean
Start	3792	End	4284
GI	none	Score	152
Exons	3792..3875, 3799..3948, 4064..4282, 4069..4284		

Seq. No.	29732	Seq. ID	OJ990319_04.9819.C24
Gene No.	61419	Strand	+
Start	2541	End	5789
Name	OJ990319_04.9819.C24.o1.tw	Method	TBLASTX:Wheat
Start	4049	End	4294
GI	none	Score	246
Exons	4049..4294, 4072..4275		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61420	Strand	+
Start	11195	End	17092
Name	OJ990319_04.9819.C25.o3.gs	Method	GENSCAN
Start	11195	End	17092
GI	none	Score	.83
Exons	11195..11407, 12088..12198, 12310..12381, 12570..12677, 13219..13344, 13431..13520, 13673..13795, 13909..14019, 14257..14373, 14664..14738, 14877..14953, 16059..16116, 16889..17092		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61420	Strand	+
Start	11195	End	17092
Name	OJ990319_04.9819.C25.o1.np	Method	AAT/NAP
Start	11216	End	14951
GI	6715641	Score	1327
Exons	11216..11407, 12136..12198, 12310..12381, 12570..12677, 12769..12849, 13084..13137, 13219..13348, 13429..13520, 13673..13795, 13909..14019, 14260..14373, 14509..14565, 14664..14750, 14877..14951		
GI Descrip.	(AC007323) T25K16.13 [Arabidopsis thaliana]		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61420	Strand	+
Start	11195	End	17092
Name	OJ990319_04.9819.C25.o1.gp	Method	AAT/GAP
Start	14504	End	15150
GI	2317412	Score	749
Exons	14504..14565, 14664..14738, 14877..15150		
GI Descrip.	2632252/emb CAA73067  4.0e-18 (Y12464) serine/threonine kinase		

[Sorghum bicolor]

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61420	Strand	+
Start	11195	End	17092
Name	OJ990319_04.9819.C25.o2.gp	Method	AAT/GAP
Start	15217	End	15392
GI	2317413	Score	317
Exons	15217..15392		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o2.ts	Method	TBLASTX:Soybean
Start	3664	End	4751
GI	none	Score	78
Exons	3664..3789, 3680..3832, 3687..3833, 3689..3838, 4640..4726, 4665..4751		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o3.tm	Method	TBLASTX:Maize
Start	3679	End	4718
GI	none	Score	135
Exons	3679..3840, 3680..3835, 3690..3842, 4665..4718, 4667..4711		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o2.tm	Method	TBLASTX:Maize
Start	11135	End	15038
GI	none	Score	217
Exons	11135..11185, 11251..11421, 11252..11416, 12132..12200, 12133..12204, 12135..12200, 12307..12384, 12309..12386, 12570..12677, 12570..12677, 12763..12849, 12768..12851, 13974..14021, 13974..14018, 13975..14088, 14250..14372, 14256..14369, 14257..14376, 14506..14577, 14508..14573, 14632..14739, 14636..14737, 14658..14738, 14661..14750, 14874..14936, 14877..14957, 14878..14958, 15018..15038		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o1.ts	Method	TBLASTX:Soybean
Start	11248	End	14013
GI	none	Score	184
Exons	11248..11406, 11261..11416, 12133..12204, 12135..12200, 12307..12384, 12309..12383, 12570..12677, 12608..12676, 12763..12849, 12768..12851, 13083..13139, 13084..13146, 13213..13350, 13260..13334, 13410..13520, 13673..13795, 13906..14013, 13932..14012		

Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o2.tw	Method	TBLASTX:Wheat

Start	11248	End	11382
GI	none	Score	181
Exons	11248..11382, 11249..11380		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o2.tc	Method	TBLASTX:Cress
Start	11251	End	12378
GI	none	Score	184
Exons	11251..11409, 11258..11416, 12133..12204, 12138..12200, 12307..12378, 12309..12377		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o1.tc	Method	TBLASTX:Cress
Start	12638	End	13525
GI	none	Score	78
Exons	12638..12694, 12639..12677, 12762..12830, 12763..12837, 13065..13139, 13066..13143, 13213..13347, 13257..13331, 13400..13525, 13410..13520		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o1.tm	Method	TBLASTX:Maize
Start	13092	End	13973
GI	none	Score	83
Exons	13092..13136, 13093..13140, 13096..13146, 13205..13342, 13206..13343, 13210..13347, 13210..13344, 13385..13525, 13410..13520, 13672..13797, 13672..13797, 13673..13801, 13676..13798, 13875..13973		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o1.tw	Method	TBLASTX:Wheat
Start	13690	End	14376
GI	none	Score	128
Exons	13690..13797, 13700..13798, 13890..14021, 13906..14088, 13908..14018, 14250..14360, 14257..14346, 14261..14368, 14338..14376, 14341..14376		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o3.ts	Method	TBLASTX:Soybean
Start	14256	End	14737
GI	none	Score	138
Exons	14256..14372, 14257..14376, 14506..14577, 14508..14573, 14658..14735, 14663..14737		
Seq. No.	29733	Seq. ID	OJ990319_04.9819.C25
Gene No.	61421	Strand	-
Start	17749	End	17922
Name	OJ990319_04.9819.C25.o4.gs	Method	GENSCAN

Start 17749  
GI none  
Exons 17749..17922

End 17922  
Score .54

Seq. No. 29734  
Gene No. 61422  
Start 592  
Name OJ990319\_04.9819.C26.o2.gs  
Start 592  
GI none  
Exons 592..735, 889..1083

Seq. ID OJ990319\_04.9819.C26  
Strand +  
End 1083  
Method GENSCAN  
End 1083  
Score .91

Seq. No. 29734  
Gene No. 61423  
Start 1  
Name OJ990319\_04.9819.C26.o1.np  
Start 1  
GI 1922242  
Exons 1..262, 359..440  
GI Descrip. (Y10084) hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ990319\_04.9819.C26  
Strand -  
End 802  
Method AAT/NAP  
End 440  
Score 230

Seq. No. 29734  
Gene No. 61423  
Start 1  
Name OJ990319\_04.9819.C26.o1.gp  
Start 73  
GI uC-osf1M202046b02b1  
Exons 73..262, 359..434, 625..802  
GI Descrip. '1922242/emb|CAA71173| 5.0e-13 (Y10084) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ990319\_04.9819.C26  
Strand -  
End 802  
Method AAT/GAP  
End 802  
Score 821

Seq. No. 29734  
Gene No. 61423  
Start 1  
Name OJ990319\_04.9819.C26.o1.gs  
Start 189  
GI none  
Exons 189..434, 479..484

Seq. ID OJ990319\_04.9819.C26  
Strand -  
End 802  
Method GENSCAN  
End 484  
Score .98

Seq. No. 29734  
Gene No. 61424  
Start 2020  
Name OJ990319\_04.9819.C26.o1.tc  
Start 124  
GI none  
Exons 124..264, 132..278, 355..435, 357..440

Seq. ID OJ990319\_04.9819.C26  
Strand -  
End 3211  
Method TBLASTX:Cress  
End 440  
Score ~103

Seq. No. 29734  
Gene No. 61424  
Start 2020  
Name OJ990319\_04.9819.C26.o1.tm  
Start 132  
GI none  
Exons 132..278, 146..262, 345..437, 355..435, 359..439

Seq. ID OJ990319\_04.9819.C26  
Strand -  
End 3211  
Method TBLASTX:Maize  
End 439  
Score 160

Seq. No. 29734  
Gene No. 61424

Seq. ID OJ990319\_04.9819.C26  
Strand -

Start	2020	End	3211
Name	OJ990319_04.9819.C26.o1.tw	Method	TBLASTX:Wheat
Start	141	End	437
GI	none	Score	40
Exons	141..164, 141..164, 166..216, 170..217, 172..219, 219..278, 221..262, 221..259, 355..435, 357..437, 359..436		

Seq. No.	29734	Seq. ID	OJ990319_04.9819.C26
Gene No.	61424	Strand	-
Start	2020	End	3211
Name	OJ990319_04.9819.C26.o1.ts	Method	TBLASTX:Soybean
Start	171	End	440
GI	none	Score	96
Exons	171..278, 172..306, 355..435, 357..440, 380..439		

Seq. No.	29734	Seq. ID	OJ990319_04.9819.C26
Gene No.	61424	Strand	-
Start	2020	End	3211
Name	OJ990319_04.9819.C26.o3.gs	Method	GENSCAN
Start	2020	End	3211
GI	none	Score	.61
Exons	2020..2109, 3194..3211		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61425	Strand	+
Start	590	End	6553
Name	OJ990319_04.9819.C27.o1.np	Method	AAT/NAP
Start	590	End	5169
GI	4218008	Score	134
Exons	590..852, 3492..3696, 5105..5169		
GI Descrip.	(AC006135) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61425	Strand	+
Start	590	End	6553
Name	OJ990319_04.9819.C27.o3.gs	Method	GENSCAN
Start	4909	End	6553
GI	none	Score	.53
Exons	4909..5279, 6529..6553		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61426	Strand	+
Start	7479	End	8920
Name	OJ990319_04.9819.C27.o1.gp	Method	AAT/GAP
Start	7479	End	8920
GI	64797_1.R1084	Score	847
Exons	7479..7508, 8112..8276, 8475..8705, 8847..8920		
GI Descrip.	'2632252/emb CAA73067  4.0e-18 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61427	Strand	-
Start	8513	End	9226
Name	OJ990319_04.9819.C27.o2.tm	Method	TBLASTX:Maize
Start	3494	End	3678
GI	none	Score	182
Exons	3494..3676, 3499..3567, 3628..3678		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61427	Strand	-
Start	8513	End	9226
Name	OJ990319_04.9819.C27.o1.tm	Method	TBLASTX:Maize
Start	5317	End	8282
GI	none	Score	82
Exons	5317..5367, 6152..6208, 6153..6212, 6528..6596, 6528..6605, 6529..6609, 6861..6992, 6861..6992, 7448..7507, 7455..7508, 7460..7513, 8091..8207, 8117..8200, 8220..8279, 8226..8282		

Seq. No.	29735	Seq. ID	OJ990319_04.9819.C27
Gene No.	61427	Strand	-
Start	8513	End	9226
Name	OJ990319_04.9819.C27.o4.gs	Method	GENSCAN
Start	8513	End	9226
GI	none	Score	.47
Exons	8513..8568, 9067..9226		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61428	Strand	+
Start	1	End	169
Name	OJ990319_04.9819.C28.o1.gp	Method	AAT/GAP
Start	1	End	169
GI	1944311	Score	266
Exons	1..169		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61429	Strand	+
Start	947	End	4252
Name	OJ990319_04.9819.C28.o1.np	Method	AAT/NAP
Start	947	End	4252
GI	2505877	Score	1411
Exons	947..1560, 2580..2745, 2868..2998, 3413..4252		
GI Descrip.	(Y12776) dehydrogenase [Arabidopsis thaliana]		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133
Name	OJ990319_04.9819.C28.o1.tc	Method	TBLASTX:Cress
Start	1243	End	3004
GI	none	Score	96
Exons	1243..1326, 1296..1382, 1323..1571, 1390..1548, 2609..2746, 2609..2746, 2610..2747, 2629..2757, 2866..3000, 2867..3004, 2879..3001		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133
Name	OJ990319_04.9819.C28.o3.tm	Method	TBLASTX:Maize
Start	1289	End	1545
GI	none	Score	106
Exons	1289..1384, 1293..1382, 1401..1472, 1402..1473, 1498..1545		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133



Name	OJ990319_04.9819.C28.o2.tm	Method	TBLASTX:Maize
Start	2681	End	3727
GI	none	Score	91
Exons	2681..2746, 2682..2747, 2685..2747, 2866..3003, 2867..3004, 3407..3538, 3408..3596, 3409..3564, 3420..3599, 3602..3727, 3607..3723		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133
Name	OJ990319_04.9819.C28.o1.ts	Method	TBLASTX:Soybean
Start	3407	End	3922
GI	none	Score	192
Exons	3407..3538, 3409..3552, 3413..3538, 3722..3844, 3875..3922, 3880..3921		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133
Name	OJ990319_04.9819.C28.o2.gp	Method	AAT/GAP
Start	3627	End	4133
GI	uC-osflM202096g03b1	Score	964
Exons	3627..4133		
GI Descrip.	'2505877/emb CAA73306  6.0e-14 (Y12776) dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	29736	Seq. ID	OJ990319_04.9819.C28
Gene No.	61430	Strand	-
Start	3627	End	4133
Name	OJ990319_04.9819.C28.o1.tm	Method	TBLASTX:Maize
Start	3869	End	4098
GI	none	Score	313
Exons	3869..4096, 3880..4098		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61431	Strand	+
Start	1	End	10086
Name	OJ990319_04.9819.C29.o1.np	Method	AAT/NAP
Start	1	End	1096
GI	1922246	Score	217
Exons	1..152, 674..790, 1025..1096		
GI Descrip.	(Y10086) putative dehydrogenase [Arabidopsis thaliana]		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61431	Strand	+
Start	1	End	10086
Name	OJ990319_04.9819.C29.o1.gp	Method	AAT/GAP
Start	105	End	1290
GI	uC-osflcyp132g04a1	Score	803
Exons	105..152, 674..790, 1025..1290		
GI Descrip.	'2505877/emb CAA73306  7.0e-36 (Y12776) dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61431	Strand	+
Start	1	End	10086
Name	OJ990319_04.9819.C29.o1.gs	Method	GENSCAN

Start	105	End	10086
GI	none	Score	.79
Exons	105..152, 1203..1274, 2096..2242, 3179..3416, 4837..4867, 4993..5248, 5368..5511, 5600..5761, 5908..5991, 7346..7534, 8005..8095, 8524..8642, 8970..9104, 9671..9716, 9938..10086		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61431	Strand	+
Start	1	End	10086
Name	OJ990319_04.9819.C29.o2.np	Method	AAT/NAP
Start	3155	End	9122
GI	1389768	Score	980
Exons	3155..3192, 5363..5511, 5600..5761, 5908..5991, 7346..7534, 8005..8095, 8237..8296, 8524..8642, 8970..9122		
GI Descrip.	(U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61431	Strand	+
Start	1	End	10086
Name	OJ990319_04.9819.C29.o2.gp	Method	AAT/GAP
Start	8018	End	9091
GI	LIB3434-026-P1-K1-E6	Score	658
Exons	8018..8095, 8237..8296, 8524..8642, 8970..9091		
GI Descrip.	'1389768 1.0e-34 (U58942) phosphoribosylanthranilate transferase [Arabidopsis thaliana]'		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61432	Strand	-
Start	9594	End	10011
Name	OJ990319_04.9819.C29.o3.gp	Method	AAT/GAP
Start	9594	End	10011
GI	none	Score	767
Exons	9594..10011		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61433	Strand	-
Start	10671	End	11538
Name	OJ990319_04.9819.C29.o2.gs	Method	GENSCAN
Start	10671	End	11538
GI	none	Score	.84
Exons	10671..11132, 11158..11538		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o4.tm	Method	TBLASTX:Maize
Start	93	End	1108
GI	none	Score	86
Exons	93..158, 104..151, 664..783, 665..790, 671..790, 673..792, 1024..1095, 1025..1096, 1025..1108		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o2.tm	Method	TBLASTX:Maize
Start	5230	End	5725

GI	none	Score	37
Exons	5230..5253, 5365..5514, 5365..5400, 5458..5532, 5597..5725, 5597..5671		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o1.ts	Method	TBLASTX:Soybean
Start	5449	End	5996
GI	none	Score	89
Exons	5449..5514, 5597..5728, 5907..5996		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o1.tm	Method	TBLASTX:Maize
Start	5943	End	9103
GI	none	Score	70
Exons	5943..5990, 5947..5991, 5947..5997, 7343..7528, 7343..7534, 7450..7530, 8004..8096, 8005..8097, 8005..8097, 8223..8297, 8224..8295, 8244..8297, 8497..8637, 8502..8582, 8502..8639, 8505..8639, 8517..8642, 8517..8642, 8519..8644, 8519..8644, 8969..9013, 8972..9013, 9036..9095, 9038..9103		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o3.gs	Method	GENSCAN
Start	12733	End	13912
GI	none	Score	.89
Exons	12733..12750, 12965..13217, 13300..13346, 13669..13912		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o3.tm	Method	TBLASTX:Maize
Start	12964	End	13796
GI	none	Score	95
Exons	12964..13131, 13011..13220, 13011..13220, 13025..13273, 13153..13221, 13298..13354, 13299..13349, 13669..13779, 13669..13782, 13728..13796		

Seq. No.	29737	Seq. ID	OJ990319_04.9819.C29
Gene No.	61434	Strand	-
Start	12733	End	13912
Name	OJ990319_04.9819.C29.o3.np	Method	AAT/NAP
Start	13305	End	13767
GI	3549672	Score	80
Exons	13305..13346, 13669..13767		
GI Descrip.	(AL031394) putative protein [Arabidopsis thaliana]		

Seq. No.	29738	Seq. ID	OJ990319_04.9819.C32
Gene No.	61435	Strand	+
Start	129	End	780
Name	OJ990319_04.9819.C32.o1.gs	Method	GENSCAN
Start	129	End	206
GI	none	Score	1

Exons 129..206

Seq. No.	29738	Seq. ID	OJ990319_04.9819.C32
Gene No.	61435	Strand	+
Start	129	End	780
Name	OJ990319_04.9819.C32.o1.np	Method	AAT/NAP
Start	129	End	780
GI	6692106	Score	122
Exons	129..206, 663..780		
GI Descrip.	(AC007764) F22C12.25 [Arabidopsis thaliana]		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61436	Strand	+
Start	1000	End	4965
Name	OJ990319_04.9819.C33.o1.np	Method	AAT/NAP
Start	1000	End	4965
GI	6850840	Score	1262
Exons	1000..1116, 2227..2451, 3605..3725, 3838..4012, 4108..4178, 4277..4965		
GI Descrip.	(AL132962) putative protein [Arabidopsis thaliana]		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61436	Strand	+
Start	1000	End	4965
Name	OJ990319_04.9819.C33.o1.gs	Method	GENSCAN
Start	1098	End	1247
GI	none	Score	.85
Exons	1098..1247		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61436	Strand	+
Start	1000	End	4965
Name	OJ990319_04.9819.C33.o1.gp	Method	AAT/GAP
Start	1794	End	2326
GI	none	Score	805
Exons	1794..2036, 2149..2326		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61436	Strand	+
Start	1000	End	4965
Name	OJ990319_04.9819.C33.o2.gs	Method	GENSCAN
Start	2013	End	4959
GI	none	Score	.9
Exons	2013..2036, 2149..2451, 3605..3725, 3838..4012, 4018..4178, 4277..4959		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61436	Strand	+
Start	1000	End	4965
Name	OJ990319_04.9819.C33.o2.gp	Method	AAT/GAP
Start	3577	End	4347
GI	uC-osflcyp086g06b1	Score	779
Exons	3577..3725, 3838..4012, 4108..4178, 4277..4347		
GI Descrip.	'3738338 9.0e-52 (AC005170) putative polygalacturonase [Arabidopsis thaliana]'		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
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Gene No.	61437	Strand	+
Start	7768	End	8114
Name	OJ990319_04.9819.C33.o5.gp	Method	AAT/GAP
Start	7768	End	8114
GI	none	Score	633
Exons	7768..8114		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61438	Strand	-
Start	4659	End	5070
Name	OJ990319_04.9819.C33.o3.gp	Method	AAT/GAP
Start	4659	End	5070
GI	37628_1.R1084	Score	737
Exons	4659..5070		
GI Descrip.	'3738338 6.0e-11 (AC005170) putative polygalacturonase [Arabidopsis thaliana]'		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61439	Strand	-
Start	5290	End	6811
Name	OJ990319_04.9819.C33.o4.gp	Method	AAT/GAP
Start	5134	End	6668
GI	904_1.R1084	Score	1899
Exons	5134..5625, 6016..6216, 6350..6668		
GI Descrip.	'3777600 1.0e-131 (AF095708) 50S ribosomal protein L5 [Oryza sativa]'		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61439	Strand	-
Start	5290	End	6811
Name	OJ990319_04.9819.C33.o3.gs	Method	GENSCAN
Start	5290	End	6811
GI	none	Score	.71
Exons	5290..5625, 6016..6216, 6350..6811		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61439	Strand	-
Start	5290	End	6811
Name	OJ990319_04.9819.C33.o2.np	Method	AAT/NAP
Start	5293	End	6655
GI	3777600	Score	1348
Exons	5293..5625, 6016..6216, 6350..6655		
GI Descrip.	(AF095708) 50S ribosomal protein L5 [Oryza sativa]		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o1.ts	Method	TBLASTX:Soybean
Start	2230	End	4869
GI	none	Score	237
Exons	2230..2457, 2250..2456, 3581..3727, 3584..3727, 3831..4007, 3837..4016, 4094..4177, 4105..4176, 4275..4865, 4276..4869		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o5.tc	Method	TBLASTX:Cress

Start 2230  
 GI none  
 Exons 2230..2451, 2241..2444

End 2451  
 Score 235

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o1.tm  
 Start 2319  
 GI none  
 Exons 2319..2447, 2332..2448, 3617..3727, 3831..4013, 3837..4016, 4094..4204, 4129..4176, 4275..4412, 4276..4782, 4437..4487, 4521..4565, 4611..4778

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Maize  
 End 4782  
 Score 106

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o3.tc  
 Start 3598  
 GI none  
 Exons 3598..3714, 3623..3721, 3834..4013, 4094..4177

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Cress  
 End 4177  
 Score 64

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o1.tw  
 Start 3617  
 GI none  
 Exons 3617..3727, 3815..3886, 3831..4010, 4109..4147

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Wheat  
 End 4147  
 Score 136

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o6.tc  
 Start 4275  
 GI none  
 Exons 4275..4550, 4276..4479, 4519..4572

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Cress  
 End 4572  
 Score 186

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o2.tw  
 Start 4528  
 GI none  
 Exons 4528..4824

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Wheat  
 End 4824  
 Score 195

Seq. No. 29739  
 Gene No. 61440  
 Start 8006  
 Name OJ990319\_04.9819.C33.o1.tc  
 Start 4585  
 GI none  
 Exons 4585..4869, 4585..4842, 4650..4877

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144  
 Method TBLASTX:Cress  
 End 4877  
 Score 350

Seq. No. 29739  
 Gene No. 61440  
 Start 8006

Seq. ID OJ990319\_04.9819.C33  
 Strand -  
 End 10144

Name	OJ990319_04.9819.C33.o5.tm	Method	TBLASTX:Maize
Start	4783	End	4959
GI	none	Score	274
Exons	4783..4959, 4791..4958		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o2.tm	Method	TBLASTX:Maize
Start	5189	End	6175
GI	none	Score	392
Exons	5189..5230, 5296..5628, 5300..5623, 5305..5625, 5984..6175, 5999..6166, 6013..6174		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o2.tc	Method	TBLASTX:Cress
Start	5288	End	6467
GI	none	Score	42
Exons	5288..5347, 5290..5361, 5371..5625, 5441..5626, 5998..6240, 6011..6217, 6127..6228, 6347..6466, 6348..6467		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o2.ts	Method	TBLASTX:Soybean
Start	5290	End	6467
GI	none	Score	180
Exons	5290..5313, 5296..5625, 5297..5611, 5317..5628, 5984..6217, 5998..6219, 6187..6219, 6347..6442, 6347..6466, 6348..6467		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o4.tm	Method	TBLASTX:Maize
Start	6178	End	6682
GI	none	Score	58
Exons	6178..6219, 6182..6217, 6338..6436, 6347..6466, 6348..6467, 6348..6497, 6560..6682, 6594..6656		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o4.gs	Method	GENSCAN
Start	8006	End	10134
GI	none	Score	.88
Exons	8006..8095, 8395..8451, 8575..8700, 9634..9840, 9925..10016, 10086..10134		
Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o3.np	Method	AAT/NAP
Start	8018	End	10144
GI	5870600	Score	730
Exons	8018..8095, 8395..8451, 8575..8700, 9634..9840, 9925..9975,		

10081..10144  
GI Descrip. (Y14810) beta-carotene hydroxylase [*Lycopersicon esculentum*]

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o3.ts	Method	TBLASTX:Soybean
Start	8390	End	9829
GI	none	Score	72
Exons	8390..8440, 8395..8454, 8395..8454, 8572..8700, 8573..8701, 9626..9829, 9634..9789		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o3.tm	Method	TBLASTX:Maize
Start	8393	End	10144
GI	none	Score	79
Exons	8393..8452, 8395..8454, 8395..8454, 8572..8700, 8575..8697, 8579..8701, 9626..9847, 9634..9846, 9922..9990, 9922..9975, 9923..9997, 10084..10143, 10085..10144		

Seq. No.	29739	Seq. ID	OJ990319_04.9819.C33
Gene No.	61440	Strand	-
Start	8006	End	10144
Name	OJ990319_04.9819.C33.o4.tc	Method	TBLASTX:Cress
Start	8393	End	10143
GI	none	Score	88
Exons	8393..8449, 8393..8449, 8394..8450, 8395..8454, 8572..8700, 8573..8701, 9626..9784, 9634..9786, 9788..9847, 9922..9978, 9923..9961, 10084..10143		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61441	Strand	+
Start	1001	End	13083
Name	OJ990319_04.9819.C34.o2.gs	Method	GENSCAN
Start	1001	End	9922
GI	none	Score	.74
Exons	1001..1130, 1166..1248, 1755..2111, 2341..2516, 6313..6445, 6902..6986, 7093..7172, 7366..7493, 7557..7644, 7782..7872, 8307..8476, 8746..9033, 9122..9238, 9519..9571, 9624..9685, 9807..9922		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61441	Strand	+
Start	1001	End	13083
Name	OJ990319_04.9819.C34.o1.np	Method	AAT/NAP
Start	6368	End	9581
GI	6692106	Score	601
Exons	6368..6445, 6902..6986, 7093..7259, 7394..7493, 7578..7651, 7810..7850, 8257..8480, 8717..9033, 9116..9238, 9519..9581		
GI Descrip.	(AC007764) F22C12.25 [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61441	Strand	+
Start	1001	End	13083
Name	OJ990319_04.9819.C34.o1.gp	Method	AAT/GAP



Start 7762 End 9934  
 GI 4681\_1.R1084 Score 2008  
 Exons 7762..7872, 8307..8476, 8746..9033, 9122..9238, 9519..9934  
 GI Descrip. '2632252/emb|CAA73067| 4.0e-18 (Y12464) serine/threonine kinase  
 [Sorghum bicolor]'

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61441 Strand +  
 Start 1001 End 13083  
 Name OJ990319\_04.9819.C34.o2.np Method AAT/NAP  
 Start 9651 End 13067  
 GI 3702338 Score 826  
 Exons 9651..9677, 10403..10559, 10637..10713, 10864..10917,  
 11012..11071, 11176..11253, 11400..11446, 11528..11568,  
 11875..11959, 12038..12152, 12257..12379, 12464..12564,  
 12941..13067  
 GI Descrip. (AC005397) unknown protein [Arabidopsis thaliana]

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61441 Strand +  
 Start 1001 End 13083  
 Name OJ990319\_04.9819.C34.o2.gp Method AAT/GAP  
 Start 10996 End 11577  
 GI LIB3474-010-P1-K1-H10 Score 538  
 Exons 10996..11071, 11176..11253, 11400..11577  
 GI Descrip. '3702338 2.0e-15 (AC005397) unknown protein [Arabidopsis  
 thaliana]'

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61441 Strand +  
 Start 1001 End 13083  
 Name OJ990319\_04.9819.C34.o3.gp Method AAT/GAP  
 Start 12279 End 13083  
 GI 24037\_1.R1084 Score 636  
 Exons 12279..12379, 12464..12564, 12941..13083  
 GI Descrip. '3702338 1.0e-38 (AC005397) unknown protein [Arabidopsis  
 thaliana]'

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61441 Strand +  
 Start 1001 End 13083  
 Name OJ990319\_04.9819.C34.o4.gs Method GENSCAN  
 Start 12335 End 13070  
 GI none Score .84  
 Exons 12335..12379, 12464..12564, 12941..13070

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61442 Strand +  
 Start 18264 End 22368  
 Name OJ990319\_04.9819.C34.o6.gs Method GENSCAN  
 Start 18264 End 22368  
 GI none Score .88  
 Exons 18264..18395, 18843..19612, 20349..20453, 20545..20667,  
 21503..21673, 21758..21887, 21967..22176, 22270..22368

Seq. No. 29740 Seq. ID OJ990319\_04.9819.C34  
 Gene No. 61442 Strand +

Start	18264	End	22368
Name	OJ990319_04.9819.C34.o3.np	Method	AAT/NAP
Start	18936	End	22291
GI	2505874	Score	1339
Exons	18936..19104, 19218..19612, 20349..20453, 20545..20667, 21503..21673, 21758..21887, 21967..22291		
GI Descrip.	(Y12776) putative kinase [Arabidopsis thaliana]		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61442	Strand	+
Start	18264	End	22368
Name	OJ990319_04.9819.C34.o5.gp	Method	AAT/GAP
Start	20574	End	22084
GI	20801_1.R1084	Score	933
Exons	20574..20667, 21503..21673, 21758..21887, 21967..22084		
GI Descrip.	'2505874/emb CAA73303  1.0e-75 (Y12776) putative kinase [Arabidopsis thaliana]'		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61443	Strand	+
Start	30998	End	31890
Name	OJ990319_04.9819.C34.o8.gs	Method	GENSCAN
Start	30998	End	31890
GI	none	Score	.48
Exons	30998..31051, 31801..31890		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61444	Strand	-
Start	10309	End	11214
Name	OJ990319_04.9819.C34.o3.gs	Method	GENSCAN
Start	10309	End	11214
GI	none	Score	.66
Exons	10309..10776, 11149..11214		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61445	Strand	-
Start	15234	End	17752
Name	OJ990319_04.9819.C34.o4.gp	Method	AAT/GAP
Start	14542	End	14786
GI	8022_1.R1084	Score	322
Exons	14542..14786		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61445	Strand	-
Start	15234	End	17752
Name	OJ990319_04.9819.C34.o5.gs	Method	GENSCAN
Start	15234	End	17752
GI	none	Score	.72
Exons	15234..15448, 15594..15859, 15921..16057, 17690..17752		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o3.tm	Method	TBLASTX:Maize
Start	6337	End	9767

GI	none	Score	128
Exons	6337..6453, 6368..6445, 6895..6984, 6900..7001, 6905..7006, 6929..6991, 7088..7171, 7090..7176, 7092..7172, 7370..7492, 7392..7493, 7414..7494, 7570..7662, 7575..7643, 7576..7647, 7758..7871, 7782..7868, 7786..7884, 8287..8400, 8301..8399, 8303..8401, 8387..8476, 8400..8486, 8407..8478, 8722..8844, 8737..8868, 8744..9004, 8745..8867, 8961..9032, 8987..9034, 8993..9034, 9083..9226, 9119..9244, 9120..9233, 9121..9240, 9500..9574, 9510..9575, 9516..9575, 9524..9574, 9666..9767		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o2.ts	Method	TBLASTX:Soybean
Start	11928	End	12543
GI	none	Score	66
Exons	11928..11981, 12017..12118, 12017..12148, 12039..12152, 12260..12382, 12265..12381, 12302..12382, 12463..12543, 12464..12541		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o2.tm	Method	TBLASTX:Maize
Start	12004	End	12541
GI	none	Score	198
Exons	12004..12153, 12012..12155, 12029..12154, 12247..12381, 12257..12382, 12463..12540, 12464..12541		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o3.tc	Method	TBLASTX:Cress
Start	19367	End	19619
GI	none	Score	268
Exons	19367..19465, 19407..19613, 19461..19619		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o4.tm	Method	TBLASTX:Maize
Start	19379	End	20454
GI	none	Score	56
Exons	19379..19426, 19392..19427, 19433..19606, 19439..19474, 19440..19613, 19455..19622, 19492..19623, 20346..20453, 20347..20454, 20347..20454		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o3.ts	Method	TBLASTX:Soybean
Start	19440	End	19610
GI	none	Score	223
Exons	19440..19610		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-

Start	23758	End	30205
Name	OJ990319_04.9819.C34.o1.ts	Method	TBLASTX:Soybean
Start	20314	End	22167
GI	none	Score	192
Exons	20314..20454, 20346..20453, 20540..20659, 20541..20660, 20543..20683, 21504..21680, 21504..21671, 21505..21708, 21530..21679, 21756..21839, 21758..21892, 21759..21890, 21955..22134, 21964..22134, 22111..22167		
Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o2.tc	Method	TBLASTX:Cress
Start	20346	End	21680
GI	none	Score	181
Exons	20346..20447, 20347..20454, 20540..20665, 20541..20630, 20543..20683, 21504..21680, 21530..21679		
Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o1.tm	Method	TBLASTX:Maize
Start	20549	End	22461
GI	none	Score	217
Exons	20549..20683, 20549..20683, 21501..21608, 21502..21615, 21504..21626, 21505..21609, 21530..21655, 21605..21676, 21605..21679, 21612..21680, 21759..21890, 21759..21890, 21760..21891, 21760..21891, 21761..21892, 21964..22176, 21964..22161, 22028..22195, 22270..22290, 22293..22355, 22294..22362, 22396..22461, 22397..22441		
Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o1.tw	Method	TBLASTX:Wheat
Start	21504	End	21890
GI	none	Score	175
Exons	21504..21680, 21510..21608, 21530..21673, 21759..21890, 21767..21862		
Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o1.tc	Method	TBLASTX:Cress
Start	21770	End	22176
GI	none	Score	164
Exons	21770..21886, 21771..21887, 21964..22176, 22068..22130		
Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o7.gs	Method	GENSCAN
Start	23758	End	30205
GI	none	Score	.57
Exons	23758..23982, 24067..24226, 24457..24659, 25308..25369, 26500..26530, 27407..27464, 28035..28225, 28783..28955, 29690..29926, 29992..30205		

Seq. No.	29740	Seq. ID	OJ990319_04.9819.C34
Gene No.	61446	Strand	-
Start	23758	End	30205
Name	OJ990319_04.9819.C34.o6.gp	Method	AAT/GAP
Start	27742	End	28189
GI	uC-osflcyp173b03b1	Score	892
Exons	27742..28189		
GI Descrip.	'4263821/gb AAD15464  2.0e-16 (AC006067) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	29741	Seq. ID	OJ990319_04.9819.C35
Gene No.	61447	Strand	+
Start	1	End	509
Name	OJ990319_04.9819.C35.o1.np	Method	AAT/NAP
Start	1	End	509
GI	3549672	Score	56
Exons	1..27, 419..509		
GI Descrip.	(AL031394) putative protein [Arabidopsis thaliana]		

Seq. No.	29741	Seq. ID	OJ990319_04.9819.C35
Gene No.	61448	Strand	+
Start	419	End	539
Name	OJ990319_04.9819.C35.o1.gs	Method	GENSCAN
Start	419	End	539
GI	none	Score	.42
Exons	419..539		

Seq. No.	29742	Seq. ID	OJ990319_04.9819.C37
Gene No.	61449	Strand	-
Start	1	End	762
Name	OJ990319_04.9819.C37.o1.np	Method	AAT/NAP
Start	1	End	762
GI	6692106	Score	174
Exons	1..220, 347..493, 600..762		
GI Descrip.	(AC007764) F22C12.25 [Arabidopsis thaliana]		

Seq. No.	29742	Seq. ID	OJ990319_04.9819.C37
Gene No.	61449	Strand	-
Start	1	End	762
Name	OJ990319_04.9819.C37.o1.gs	Method	GENSCAN
Start	93	End	684
GI	none	Score	.7
Exons	93..220, 414..493, 600..684		

Seq. No.	29742	Seq. ID	OJ990319_04.9819.C37
Gene No.	61449	Strand	-
Start	1	End	762
Name	OJ990319_04.9819.C37.o1.gp	Method	AAT/GAP
Start	94	End	685
GI	none	Score	473
Exons	94..189, 268..292, 414..493, 600..685		

Seq. No.	29742	Seq. ID	OJ990319_04.9819.C37
Gene No.	61449	Strand	-
Start	1	End	762
Name	OJ990319_04.9819.C37.o1.tm	Method	TBLASTX:Maize

Start	98	End	692
GI	none	Score	82
Exons	98..172, 102..194, 103..216, 414..494, 414..494, 415..498, 580..681, 585..692, 595..657, 602..691		
Seq. No.	29743	Seq. ID	OJ990319_04.9819.C39
Gene No.	61450	Strand	-
Start	1	End	792
Name	OJ990319_04.9819.C39.o1.np	Method	AAT/NAP
Start	1	End	792
GI	3549672	Score	225
Exons	1..135, 509..792		
GI Descrip.	(AL031394) putative protein [Arabidopsis thaliana]		
Seq. No.	29743	Seq. ID	OJ990319_04.9819.C39
Gene No.	61450	Strand	-
Start	1	End	792
Name	OJ990319_04.9819.C39.o1.tm	Method	TBLASTX:Maize
Start	1	End	607
GI	none	Score	191
Exons	1..138, 7..135, 11..136, 503..607, 504..596, 508..597, 509..598		
Seq. No.	29743	Seq. ID	OJ990319_04.9819.C39
Gene No.	61450	Strand	-
Start	1	End	792
Name	OJ990319_04.9819.C39.o1.gs	Method	GENSCAN
Start	4	End	595
GI	none	Score	.95
Exons	4..135, 509..595		
Seq. No.	29743	Seq. ID	OJ990319_04.9819.C39
Gene No.	61450	Strand	-
Start	1	End	792
Name	OJ990319_04.9819.C39.o1.ts	Method	TBLASTX:Soybean
Start	7	End	617
GI	none	Score	73
Exons	7..135, 10..138, 35..136, 503..613, 504..617		
Seq. No.	29744	Seq. ID	OJ990319_04.9819.C42
Gene No.	61451	Strand	-
Start	138	End	611
Name	OJ990319_04.9819.C42.o1.gs	Method	GENSCAN
Start	138	End	611
GI	none	Score	.77
Exons	138..611		
Seq. No.	29745	Seq. ID	OJ990319_04.9819.C46
Gene No.	61452	Strand	+
Start	185	End	301
Name	OJ990319_04.9819.C46.o1.tm	Method	TBLASTX:Maize
Start	175	End	301
GI	none	Score	155
Exons	175..297, 181..294, 182..301		
Seq. No.	29745	Seq. ID	OJ990319_04.9819.C46
Gene No.	61452	Strand	+
Start	185	End	301

Name OJ990319\_04.9819.C46.o1.gs  
 Start 185  
 GI none  
 Exons 185..298

Method GENSCAN  
 End 298  
 Score .49

Seq. No. 29746  
 Gene No. 61453  
 Start 389  
 Name OJ990319\_04.9819.C48.o1.gs  
 Start 389  
 GI none  
 Exons 389..578

Seq. ID OJ990319\_04.9819.C48  
 Strand -  
 End 578  
 Method GENSCAN  
 End 578  
 Score .57

Seq. No. 29747  
 Gene No. 61454  
 Start 1  
 Name OJ990319\_05.9819.C2.o1.np  
 Start 1  
 GI 5823570  
 Exons 1..33, 193..312, 396..444, 1369..1468, 1581..1642, 1750..1811, 2465..2566

Seq. ID OJ990319\_05.9819.C2  
 Strand +  
 End 2797  
 Method AAT/NAP  
 End 2566  
 Score 507

GI Descrip. (AL049730) putative protein [Arabidopsis thaliana]

Seq. No. 29747  
 Gene No. 61454  
 Start 1  
 Name OJ990319\_05.9819.C2.o1.gp  
 Start 183  
 GI 5250\_1.R1084  
 Exons 183..312, 396..444, 1369..1468, 1581..1642, 1750..1811, 2465..2797

Seq. ID OJ990319\_05.9819.C2  
 Strand +  
 End 2797  
 Method AAT/GAP  
 End 2797  
 Score 1264

GI Descrip. '5823570/emb|CAB53752.1| 2.0e-97 (AL049730) putative protein [Arabidopsis thaliana]'

Seq. No. 29747  
 Gene No. 61454  
 Start 1  
 Name OJ990319\_05.9819.C2.o1.gs  
 Start 1503  
 GI none  
 Exons 1503..1509, 1750..1811, 2465..2572

Seq. ID OJ990319\_05.9819.C2  
 Strand +  
 End 2797  
 Method GENSCAN  
 End 2572  
 Score .94

Seq. No. 29747  
 Gene No. 61455  
 Start 3331  
 Name OJ990319\_05.9819.C2.o2.gp  
 Start 3331  
 GI 39123\_1.R1084  
 Exons 3331..3824

Seq. ID OJ990319\_05.9819.C2  
 Strand +  
 End 3824  
 Method AAT/GAP  
 End 3824  
 Score 937

GI Descrip. '3378493/emb|CAA07567| 2.0e-21 (AJ007579) cysteine proteinase [Ribes nigrum]'

Seq. No. 29747  
 Gene No. 61456  
 Start 3509  
 Name OJ990319\_05.9819.C2.o2.tc  
 Start 190

Seq. ID OJ990319\_05.9819.C2  
 Strand -  
 End 4366  
 Method TBLASTX:Cress  
 End 1463

GI	none	Score	71
Exons	190..300, 191..286, 192..311, 192..311, 193..312, 387..443, 393..443, 1350..1463		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o2.ts	Method	TBLASTX:Soybean
Start	190	End	2590
GI	none	Score	136
Exons	190..303, 192..311, 192..311, 193..312, 387..443, 392..442, 393..443, 1350..1499, 1350..1469, 1367..1471, 1579..1641, 1581..1640, 1582..1641, 1754..1810, 1755..1811, 2465..2590, 2466..2573		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o2.tm	Method	TBLASTX:Maize
Start	190	End	2590
GI	none	Score	136
Exons	190..303, 192..311, 192..311, 193..312, 387..443, 388..444, 392..442, 393..443, 1350..1499, 1350..1469, 1360..1470, 1367..1471, 1579..1641, 1581..1640, 1582..1641, 1754..1810, 1755..1811, 2465..2590, 2466..2573		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o2.np	Method	AAT/NAP
Start	3509	End	4325
GI	100001	Score	581
Exons	3509..3685, 3716..4173, 4261..4325		
GI Descrip.	endopeptidase C1 - kidney bean gi 1345573 emb CAA40073  (X56753) endopeptidase (EP-C1) [Phaseolus vulgaris]		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o1.tc	Method	TBLASTX:Cress
Start	3554	End	4339
GI	none	Score	55
Exons	3554..3598, 3614..3715, 3639..3686, 3731..4174, 3732..3836, 3900..4175, 4259..4339, 4260..4328		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o1.tm	Method	TBLASTX:Maize
Start	3560	End	4334
GI	none	Score	95
Exons	3560..3604, 3614..3682, 3614..3712, 3722..4057, 3738..3836, 3915..4058, 4070..4174, 4113..4175, 4259..4327, 4260..4334		

Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366



Name	OJ990319_05.9819.C2.o1.ts	Method	TBLASTX:Soybean
Start	3560	End	4331
GI	none	Score	67
Exons	3560..3598, 3611..3715, 3624..3683, 3735..4058, 3737..4066, 4064..4174, 4119..4175, 4259..4327, 4260..4331		
Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o1.tw	Method	TBLASTX:Wheat
Start	3621	End	4346
GI	none	Score	66
Exons	3621..3686, 3623..3712, 3725..3814, 3726..3803, 3875..4171, 3912..4169, 4266..4346, 4268..4345		
Seq. No.	29747	Seq. ID	OJ990319_05.9819.C2
Gene No.	61456	Strand	-
Start	3509	End	4366
Name	OJ990319_05.9819.C2.o3.gp	Method	AAT/GAP
Start	4149	End	4366
GI	29615_1.R1084	Score	214
Exons	4149..4173, 4261..4366		
GI Descrip.	'1279602/emb CAA96436  3.0e-14 (Z71754) pectin methylesterase [Nicotiana plumbaginifolia]'		
Seq. No.	29748	Seq. ID	OJ990319_05.9819.C3
Gene No.	61457	Strand	-
Start	1	End	553
Name	OJ990319_05.9819.C3.o1.gp	Method	AAT/GAP
Start	1	End	553
GI	29615_1.R1084	Score	793
Exons	1..95, 177..553		
GI Descrip.	'1279602/emb CAA96436  3.0e-14 (Z71754) pectin methylesterase [Nicotiana plumbaginifolia]'		
Seq. No.	29748	Seq. ID	OJ990319_05.9819.C3
Gene No.	61457	Strand	-
Start	1	End	553
Name	OJ990319_05.9819.C3.o1.np	Method	AAT/NAP
Start	1	End	523
GI	5823020	Score	159
Exons	1..71, 165..523		
GI Descrip.	(AF089849) senescence-specific cysteine protease [Brassica napus]		
Seq. No.	29748	Seq. ID	OJ990319_05.9819.C3
Gene No.	61457	Strand	-
Start	1	End	553
Name	OJ990319_05.9819.C3.o1.gs	Method	GENSCAN
Start	171	End	500
GI	none	Score	.82
Exons	171..500		
Seq. No.	29748	Seq. ID	OJ990319_05.9819.C3
Gene No.	61457	Strand	-
Start	1	End	553
Name	OJ990319_05.9819.C3.o1.tm	Method	TBLASTX:Maize

Start	239	End	428
GI	none	Score	96
Exons	239..295, 240..299, 300..410, 304..414, 363..428		
Seq. No.	29749	Seq. ID	OJ990319_05.9819.C4
Gene No.	61458	Strand	-
Start	73	End	194
Name	OJ990319_05.9819.C4.o1.gs	Method	GENSCAN
Start	73	End	194
GI	none	Score	.82
Exons	73..194		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o1.np	Method	AAT/NAP
Start	7032	End	7872
GI	2827528	Score	552
Exons	7032..7265, 7294..7612, 7722..7872		
GI Descrip.	(AL021633) predicted protein [Arabidopsis thaliana]		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o2.tm	Method	TBLASTX:Maize
Start	7073	End	7238
GI	none	Score	163
Exons	7073..7237, 7080..7238		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o2.ts	Method	TBLASTX:Soybean
Start	7088	End	7255
GI	none	Score	87
Exons	7088..7255, 7089..7238		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o1.tc	Method	TBLASTX:Cress
Start	7094	End	7898
GI	none	Score	84
Exons	7094..7255, 7095..7238, 7332..7613, 7439..7633, 7722..7898		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o1.ts	Method	TBLASTX:Soybean
Start	7463	End	7902
GI	none	Score	105
Exons	7463..7633, 7464..7613, 7720..7902, 7722..7829		
Seq. No.	29750	Seq. ID	OJ990319_05.9819.C6
Gene No.	61459	Strand	-
Start	7032	End	7934
Name	OJ990319_05.9819.C6.o1.tm	Method	TBLASTX:Maize

Start	7529	End	7934
GI	none	Score	110
Exons	7529..7633, 7530..7613, 7720..7899, 7720..7740, 7722..7901, 7806..7934, 7825..7905		

Seq. No.	29751	Seq. ID	OJ990319_05.9819.C8
Gene No.	61460	Strand	+
Start	1265	End	2655
Name	OJ990319_05.9819.C8.o1.gs	Method	GENSCAN
Start	1265	End	2655
GI	none	Score	.49
Exons	1265..1357, 1970..2101, 2278..2365, 2582..2655		

Seq. No.	29752	Seq. ID	OJ990319_05.9819.C9
Gene No.	61461	Strand	+
Start	79	End	1233
Name	OJ990319_05.9819.C9.o1.gs	Method	GENSCAN
Start	79	End	1233
GI	none	Score	.75
Exons	79..192, 418..658, 752..1053, 1219..1233		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.np	Method	AAT/NAP
Start	75	End	1530
GI	3047090	Score	398
Exons	75..121, 1153..1530		
GI Descrip.	(AF058826) T26D22.18 gene product [Arabidopsis thaliana]		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.gs	Method	GENSCAN
Start	952	End	1521
GI	none	Score	.74
Exons	952..1521		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.tm	Method	TBLASTX:Maize
Start	987	End	1520
GI	none	Score	64
Exons	987..1046, 995..1054, 1000..1134, 1051..1182, 1054..1182, 1058..1186, 1067..1186, 1222..1518, 1230..1520, 1231..1518		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.gp	Method	AAT/GAP
Start	1077	End	1517
GI	LIB3431-036-P1-K1-E3	Score	864
Exons	1077..1517		
GI Descrip.	'3047090 4.0e-41 (AF058826) T26D22.18 gene product [Arabidopsis thaliana]'		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.tc	Method	TBLASTX:Cress
Start	1230	End	1520
GI	none	Score	68
Exons	1230..1313, 1230..1517, 1231..1518, 1234..1518, 1344..1520		

Seq. No.	29753	Seq. ID	OJ990319_05.9819.C10
Gene No.	61462	Strand	+
Start	75	End	1530
Name	OJ990319_05.9819.C10.o1.ts	Method	TBLASTX:Soybean
Start	1239	End	1529
GI	none	Score	219
Exons	1239..1511, 1239..1529, 1240..1518		

Seq. No.	29754	Seq. ID	OJ990319_05.9819.C11
Gene No.	61463	Strand	+
Start	625	End	2327
Name	OJ990319_05.9819.C11.o1.gs	Method	GENSCAN
Start	625	End	2327
GI	none	Score	.87
Exons	625..678, 845..1014, 2110..2327		

Seq. No.	29754	Seq. ID	OJ990319_05.9819.C11
Gene No.	61464	Strand	+
Start	3340	End	3776
Name	OJ990319_05.9819.C11.o2.gp	Method	AAT/GAP
Start	3340	End	3776
GI	none	Score	759
Exons	3340..3776		

Seq. No.	29754	Seq. ID	OJ990319_05.9819.C11
Gene No.	61465	Strand	-
Start	2227	End	2712
Name	OJ990319_05.9819.C11.o1.gp	Method	AAT/GAP
Start	2227	End	2712
GI	none	Score	960
Exons	2227..2712		

Seq. No.	29754	Seq. ID	OJ990319_05.9819.C11
Gene No.	61466	Strand	-
Start	3707	End	6304
Name	OJ990319_05.9819.C11.o2.tm	Method	TBLASTX:Maize
Start	625	End	2386
GI	none	Score	96
Exons	625..678, 626..685, 836..1012, 843..1013, 843..1013, 2109..2147, 2223..2327, 2357..2386		

Seq. No.	29754	Seq. ID	OJ990319_05.9819.C11
Gene No.	61466	Strand	-
Start	3707	End	6304
Name	OJ990319_05.9819.C11.o1.tm	Method	TBLASTX:Maize
Start	3574	End	4849
GI	none	Score	34
Exons	3574..3600, 3714..4115, 3728..4126, 4197..4355, 4199..4354, 4253..4357, 4266..4355, 4270..4359, 4437..4847, 4437..4499,		

4442..4849

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o2.np Method AAT/NAP  
Start 3701 End 6304  
GI 2129478 Score 376  
Exons 3701..4127, 4200..4354, 4445..4655, 4887..5109, 6261..6304  
GI Descrip. chitinase (EC 3.2.1.14) precursor - beet gi|488731|emb|CAA55883|  
(X79301) chitinase [Beta vulgaris] gi|829258|emb|CAA56946|  
(X81056) Chitinase [Beta vulgaris]

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o2.gs Method GENSCAN  
Start 3707 End 4846  
GI none Score 1  
Exons 3707..4127, 4200..4356, 4444..4846

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o1.np Method AAT/NAP  
Start 3719 End 4825  
GI 6850314 Score 1049  
Exons 3719..4127, 4200..4356, 4444..4825  
GI Descrip. (AC009999) Contains similarity to a basic endochitinase from  
Arabidopsis thaliana gb|AB023448, and contains a Chitinases class  
I PF|00182 domain. ESTs gb|AI995747, gb|AA728545, gb|Z26222,  
gb|Z25683, gb|T88386, gb|T1...

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o1.ts Method TBLASTX:Soybean  
Start 3737 End 4714  
GI none Score 43  
Exons 3737..3772, 3744..3785, 3785..4126, 3786..4115, 4197..4256,  
4199..4273, 4271..4354, 4272..4355, 4442..4678, 4446..4670,  
4664..4714, 4680..4712

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o1.tc Method TBLASTX:Cress  
Start 3743 End 4711  
GI none Score 40  
Exons 3743..3784, 3744..3773, 3774..4043, 3779..4063, 4044..4115,  
4046..4126, 4197..4265, 4199..4258, 4265..4354, 4272..4355,  
4442..4678, 4446..4676, 4682..4711

Seq. No. 29754 Seq. ID OJ990319\_05.9819.C11  
Gene No. 61466 Strand -  
Start 3707 End 6304  
Name OJ990319\_05.9819.C11.o3.gp Method AAT/GAP

Start 4512  
GI none  
Exons 4512..4940

End 4940  
Score 799

Seq. No. 29754  
Gene No. 61466  
Start 3707  
Name OJ990319\_05.9819.C11.o1.tw  
Start 4601  
GI none  
Exons 4601..4639, 4602..4643, 4637..4726, 4638..4700, 4691..4849, 4692..4847

Seq. ID OJ990319\_05.9819.C11  
Strand -  
End 6304  
Method TBLASTX:Wheat  
End 4849  
Score 67

Seq. No. 29755  
Gene No. 61467  
Start 2345  
Name OJ990319\_05.9819.C12.o1.gs  
Start 2345  
GI none  
Exons 2345..2529, 3066..3230, 4810..5375, 6148..6316

Seq. ID OJ990319\_05.9819.C12  
Strand -  
End 6651  
Method GENSCAN  
End 6316  
Score .55

Seq. No. 29755  
Gene No. 61467  
Start 2345  
Name OJ990319\_05.9819.C12.o1.np  
Start 3985  
GI 6907086  
Exons 3985..4075, 4140..4397, 4546..4847, 4906..5559, 6526..6651  
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ990319\_05.9819.C12  
Strand -  
End 6651  
Method AAT/NAP  
End 6651  
Score 366

Seq. No. 29756  
Gene No. 61468  
Start 1256  
Name OJ990319\_05.9819.C15.o1.gs  
Start 1256  
GI none  
Exons 1256..1336

Seq. ID OJ990319\_05.9819.C15  
Strand +  
End 1336  
Method GENSCAN  
End 1336  
Score .65

Seq. No. 29756  
Gene No. 61469  
Start 3334  
Name OJ990319\_05.9819.C15.o1.gp  
Start 3282  
GI 3761403  
Exons 3282..3757

Seq. ID OJ990319\_05.9819.C15  
Strand +  
End 3899  
Method AAT/GAP  
End 3757  
Score 686

Seq. No. 29756  
Gene No. 61469  
Start 3334  
Name OJ990319\_05.9819.C15.o2.gs  
Start 3334  
GI none  
Exons 3334..3390, 3414..3891

Seq. ID OJ990319\_05.9819.C15  
Strand +  
End 3899  
Method GENSCAN  
End 3891  
Score .82

Seq. No. 29756  
Gene No. 61469  
Start 3334

Seq. ID OJ990319\_05.9819.C15  
Strand +  
End 3899

Name	OJ990319_05.9819.C15.o1.np	Method	AAT/NAP
Start	3352	End	3899
GI	4572673	Score	370
Exons	3352..3899		
GI Descrip.	(AC006954) putative sarcosine oxidase [Arabidopsis thaliana]		

Seq. No.	29756	Seq. ID	OJ990319_05.9819.C15
Gene No.	61469	Strand	+
Start	3334	End	3899
Name	OJ990319_05.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	3402	End	3797
GI	none	Score	369
Exons	3402..3443, 3456..3707, 3459..3644, 3494..3685, 3684..3797		

Seq. No.	29756	Seq. ID	OJ990319_05.9819.C15
Gene No.	61469	Strand	+
Start	3334	End	3899
Name	OJ990319_05.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	3441	End	3614
GI	none	Score	189
Exons	3441..3614, 3465..3608		

Seq. No.	29756	Seq. ID	OJ990319_05.9819.C15
Gene No.	61469	Strand	+
Start	3334	End	3899
Name	OJ990319_05.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	3456	End	3899
GI	none	Score	214
Exons	3456..3677, 3459..3641, 3728..3898, 3729..3899		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61470	Strand	+
Start	1	End	2620
Name	OJ990319_05.9819.C16.o1.np	Method	AAT/NAP
Start	1	End	2620
GI	4572673	Score	641
Exons	1..88, 1529..2227, 2582..2620		
GI Descrip.	(AC006954) putative sarcosine oxidase [Arabidopsis thaliana]		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61471	Strand	+
Start	4404	End	6058
Name	OJ990319_05.9819.C16.o2.gs	Method	GENSCAN
Start	4404	End	6058
GI	none	Score	.79
Exons	4404..4479, 4481..4685, 4756..4818, 4823..4911, 5246..5581, 5598..6058		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61472	Strand	+
Start	14374	End	24080
Name	OJ990319_05.9819.C16.o4.gs	Method	GENSCAN
Start	14374	End	24080
GI	none	Score	.61
Exons	14374..14473, 16761..16849, 17628..17783, 18624..18672, 19091..19414, 20387..20667, 20790..21000, 21076..21337, 21903..21988, 23311..24080		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61472	Strand	+
Start	14374	End	24080
Name	OJ990319_05.9819.C16.o3.np	Method	AAT/NAP
Start	19228	End	21239
GI	4337200	Score	650
Exons	19228..19414, 20387..20667, 20787..21239		
GI Descrip.	(AC006403) NAM (no apical meristem)-like protein [Arabidopsis thaliana]		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61473	Strand	+
Start	24473	End	24602
Name	OJ990319_05.9819.C16.o3.gp	Method	AAT/GAP
Start	24473	End	24602
GI	2801039	Score	151
Exons	24473..24602		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61474	Strand	+
Start	30378	End	33716
Name	OJ990319_05.9819.C16.o5.gp	Method	AAT/GAP
Start	30378	End	33344
GI	none	Score	877
Exons	30378..30467, 31537..31565, 31649..31767, 32155..32303, 32868..33004, 33313..33344		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61474	Strand	+
Start	30378	End	33716
Name	OJ990319_05.9819.C16.o6.gs	Method	GENSCAN
Start	31306	End	33716
GI	none	Score	.84
Exons	31306..31352, 31537..31767, 32155..32303, 32868..33004, 33609..33716		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61475	Strand	-
Start	1550	End	2338
Name	OJ990319_05.9819.C16.o1.gs	Method	GENSCAN
Start	1550	End	2338
GI	none	Score	.97
Exons	1550..2338		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61476	Strand	-
Start	5258	End	6022
Name	OJ990319_05.9819.C16.o2.np	Method	AAT/NAP
Start	5258	End	6022
GI	4467154	Score	630
Exons	5258..5519, 5596..6022		
GI Descrip.	(AL035540) putative thaumatin-like protein [Arabidopsis thaliana]		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-



Start	7380	End	33525
Name	OJ990319_05.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	1565	End	2059
GI	none	Score	522
Exons	1565..1891, 1565..1717, 1570..1893, 1898..2059, 1898..2059		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	1748	End	2188
GI	none	Score	45
Exons	1748..1774, 1778..1876, 1795..1863, 1955..2110, 1964..2188, 2062..2145		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o3.tc	Method	TBLASTX:Cress
Start	1888	End	2229
GI	none	Score	262
Exons	1888..2142, 1961..2143, 1976..2143, 2149..2229, 2150..2227		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o1.tw	Method	TBLASTX:Wheat
Start	5260	End	5487
GI	none	Score	169
Exons	5260..5487, 5273..5449		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o2.tc	Method	TBLASTX:Cress
Start	5267	End	6001
GI	none	Score	102
Exons	5267..5449, 5305..5478, 5666..5785, 5727..5786, 5786..6001, 5787..5966		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o8.tm	Method	TBLASTX:Maize
Start	5272	End	5472
GI	none	Score	129
Exons	5272..5472, 5273..5434		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o2.ts	Method	TBLASTX:Soybean
Start	5296	End	6049
GI	none	Score	118
Exons	5296..5490, 5297..5434, 5666..5779, 5727..5780, 5730..6014, 5786..6049		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o4.tw	Method	TBLASTX:Wheat
Start	5693	End	6001
GI	none	Score	122
Exons	5693..5749, 5750..5863, 5751..5861, 5867..5917, 5868..5918, 5927..6001		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o2.tm	Method	TBLASTX:Maize
Start	5756	End	6014
GI	none	Score	382
Exons	5756..6001, 5757..6014, 5937..6008		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o4.np	Method	AAT/NAP
Start	7179	End	33525
GI	5777623	Score	323
Exons	7179..7313, 23245..23445, 23554..23642, 29597..29624, 33451..33525		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o1.gp	Method	AAT/GAP
Start	7244	End	7699
GI	none	Score	867
Exons	7244..7699		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o5.tm	Method	TBLASTX:Maize
Start	7327	End	8714
GI	none	Score	298
Exons	7327..7362, 7384..7611, 7385..7606, 7386..7613, 8283..8333, 8283..8333, 8284..8352, 8285..8338, 8444..8470, 8574..8714, 8602..8712		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o3.gs	Method	GENSCAN
Start	7380	End	9608
GI	none	Score	.65
Exons	7380..7611, 8286..8331, 8579..8802, 8882..8998, 9350..9400, 9514..9608		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525

Name	OJ990319_05.9819.C16.o4.ts	Method	TBLASTX:Soybean
Start	7386	End	8712
GI	none	Score	169
Exons	7386..7613, 7465..7611, 7468..7614, 8285..8338, 8574..8711, 8602..8712		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o4.tc	Method	TBLASTX:Cress
Start	7413	End	8714
GI	none	Score	183
Exons	7413..7613, 7417..7614, 8262..8333, 8285..8338, 8574..8714, 8602..8712		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o2.gp	Method	AAT/GAP
Start	10364	End	10786
GI	2428050	Score	804
Exons	10364..10786		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o6.tm	Method	TBLASTX:Maize
Start	10657	End	11064
GI	none	Score	141
Exons	10657..10755, 10660..10752, 10756..10848, 10756..10848, 10858..10968, 10859..10969, 10859..10966, 10984..11064, 10985..11044		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o1.tc	Method	TBLASTX:Cress
Start	19272	End	20646
GI	none	Score	222
Exons	19272..19418, 19273..19416, 20379..20522, 20383..20529, 20398..20538, 20538..20633, 20539..20646, 20551..20646		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o3.tm	Method	TBLASTX:Maize
Start	19273	End	20840
GI	none	Score	171
Exons	19273..19413, 19273..19410, 20382..20513, 20383..20520, 20389..20517, 20544..20651, 20548..20637, 20786..20839, 20787..20840		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o3.ts	Method	TBLASTX:Soybean
Start	19273	End	20647

GI	none	Score	198
Exons	19273..19413, 19273..19413, 20382..20525, 20383..20529, 20548..20646, 20550..20636, 20552..20647		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o3.tw	Method	TBLASTX:Wheat
Start	20400	End	20637
GI	none	Score	139
Exons	20400..20510, 20401..20517, 20550..20633, 20551..20637		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o4.gp	Method	AAT/GAP
Start	24606	End	27842
GI	39946_1.R1084	Score	2000
Exons	24606..24842, 25158..25297, 25386..25447, 25527..25607, 26241..26396, 26540..26704, 26902..26964, 27058..27120, 27192..27245, 27758..27842		
GI Descrip.	'4337210/gb AAD18124  5.0e-66 (AC006403) hypothetical protein [Arabidopsis thaliana]'		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o5.gs	Method	GENSCAN
Start	25213	End	29744
GI	none	Score	.88
Exons	25213..25297, 25534..25607, 26241..26396, 26540..26704, 26902..26964, 27758..27814, 27890..27958, 28359..28472, 28549..28620, 28706..28916, 29569..29744		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o5.tc	Method	TBLASTX:Cress
Start	25388	End	27254
GI	none	Score	86
Exons	25388..25447, 25530..25610, 26238..26402, 26241..26399, 26248..26400, 26540..26671, 26875..26979, 27055..27108, 27207..27254		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o5.ts	Method	TBLASTX:Soybean
Start	25388	End	26405
GI	none	Score	64
Exons	25388..25447, 25530..25610, 26238..26405, 26241..26399, 26257..26400		

  

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o7.tm	Method	TBLASTX:Maize

Start	25401	End	28836
GI	none	Score	67
Exons	25401..25451, 25513..25608, 25514..25609, 25527..25610, 25527..25610, 26235..26393, 26247..26402, 26247..26405, 26257..26403, 26276..26419, 26538..26705, 26540..26704, 26601..26708, 26902..26967, 26903..26965, 26925..26969, 27044..27121, 27056..27121, 27057..27122, 27190..27255, 27191..27259, 27195..27254, 27752..27814, 27757..27825, 27888..27962, 27890..27958, 28356..28463, 28357..28446, 28361..28468, 28550..28612, 28551..28610, 28704..28757, 28705..28836		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o2.tw	Method	TBLASTX:Wheat
Start	26360	End	27819
GI	none	Score	65
Exons	26360..26407, 26360..26398, 26361..26405, 26538..26705, 26540..26704, 26901..26966, 26905..26967, 26906..26965, 27044..27121, 27048..27122, 27058..27120, 27187..27246, 27201..27248, 27201..27254, 27729..27815, 27757..27819		

Seq. No.	29757	Seq. ID	OJ990319_05.9819.C16
Gene No.	61477	Strand	-
Start	7380	End	33525
Name	OJ990319_05.9819.C16.o4.tm	Method	TBLASTX:Maize
Start	31549	End	31745
GI	none	Score	321
Exons	31549..31743, 31553..31744, 31554..31745		

Seq. No.	29758	Seq. ID	OJ990319_05.9819.C17
Gene No.	61478	Strand	-
Start	251	End	300
Name	OJ990319_05.9819.C17.o1.gs	Method	GENSCAN
Start	251	End	300
GI	none	Score	.66
Exons	251..300		

Seq. No.	29759	Seq. ID	OJ990319_05.9819.C18
Gene No.	61479	Strand	+
Start	138	End	637
Name	OJ990319_05.9819.C18.o1.gp	Method	AAT/GAP
Start	138	End	637
GI	none	Score	524
Exons	138..184, 389..637		

Seq. No.	29759	Seq. ID	OJ990319_05.9819.C18
Gene No.	61480	Strand	-
Start	202	End	1243
Name	OJ990319_05.9819.C18.o1.gs	Method	GENSCAN
Start	202	End	1243
GI	none	Score	.44
Exons	202..495, 1040..1243		

Seq. No.	29760	Seq. ID	OJ990319_05.9819.C20
Gene No.	61481	Strand	+

Start	441	End	606
Name	OJ990319_05.9819.C20.o1.gs	Method	GENSCAN
Start	441	End	606
GI	none	Score	.68
Exons	441..606		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.np	Method	AAT/NAP
Start	1	End	907
GI	5823570	Score	339
Exons	1..182, 427..520, 747..907		
GI Descrip.	(AL049730) putative protein [Arabidopsis thaliana]		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.tm	Method	TBLASTX:Maize
Start	94	End	892
GI	none	Score	133
Exons	94..183, 102..185, 102..182, 413..520, 424..522, 425..523, 427..534, 740..892, 741..869		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.ts	Method	TBLASTX:Soybean
Start	94	End	892
GI	none	Score	133
Exons	94..183, 102..182, 413..520, 424..522, 425..523, 427..534, 740..892, 741..869		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.gp	Method	AAT/GAP
Start	102	End	1069
GI	5250_1.R1084	Score	872
Exons	102..180, 426..520, 747..1069		
GI Descrip.	'5823570/emb CAB53752.1  2.0e-97 (AL049730) putative protein [Arabidopsis thaliana]'		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.gs	Method	GENSCAN
Start	427	End	907
GI	none	Score	.85
Exons	427..520, 747..907		

Seq. No.	29761	Seq. ID	OJ990319_05.9819.C23
Gene No.	61482	Strand	-
Start	1	End	1069
Name	OJ990319_05.9819.C23.o1.tw	Method	TBLASTX:Wheat
Start	746	End	917
GI	none	Score	57

Exons 746..790, 748..789, 779..892, 789..917

Seq. No. 29762 Seq. ID OJ990319\_05.9819.C24  
Gene No. 61483 Strand +  
Start 3166 End 9718  
Name OJ990319\_05.9819.C24.o2.gs Method GENSCAN  
Start 3166 End 9668  
GI none Score .61  
Exons 3166..3337, 4134..4369, 4705..4889, 5907..6284, 7240..7873,  
8604..9668

Seq. No. 29762 Seq. ID OJ990319\_05.9819.C24  
Gene No. 61483 Strand +  
Start 3166 End 9718  
Name OJ990319\_05.9819.C24.o1.np Method AAT/NAP  
Start 6268 End 9718  
GI 3980417 Score 63  
Exons 6268..6299, 7408..7687, 9682..9718  
GI Descrip. (AC004561) putative pumilio/Mpt5 family RNA-binding protein  
[Arabidopsis thaliana]

Seq. No. 29762 Seq. ID OJ990319\_05.9819.C24  
Gene No. 61484 Strand -  
Start 51 End 763  
Name OJ990319\_05.9819.C24.o1.gs Method GENSCAN  
Start 51 End 763  
GI none Score .7  
Exons 51..120, 620..763

Seq. No. 29762 Seq. ID OJ990319\_05.9819.C24  
Gene No. 61484 Strand -  
Start 51 End 763  
Name OJ990319\_05.9819.C24.o1.gp Method AAT/GAP  
Start 284 End 407  
GI 55507\_1.R1084 Score 157  
Exons 284..407  
GI Descrip. '5042437/gb|AC007789.1|AC007789 1.0e-16 Oryza sativa BAC T49B20  
genomic sequence, complete sequence'

Seq. No. 29763 Seq. ID OJ990319\_05.9819.C25  
Gene No. 61485 Strand +  
Start 1 End 3291  
Name OJ990319\_05.9819.C25.o1.np Method AAT/NAP  
Start 1 End 3006  
GI 3980412 Score 889  
Exons 1..298, 395..536, 710..817, 1614..1826, 1910..2020, 2213..2407,  
2787..3006  
GI Descrip. (AC004561) putative pumilio/Mpt5 family RNA-binding protein  
[Arabidopsis thaliana]

Seq. No. 29763 Seq. ID OJ990319\_05.9819.C25  
Gene No. 61485 Strand +  
Start 1 End 3291  
Name OJ990319\_05.9819.C25.o1.gs Method GENSCAN  
Start 64 End 3291  
GI none Score .76  
Exons 64..298, 395..536, 1614..1826, 1910..2020, 2213..2407,

2787..2953, 3066..3291

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61485	Strand	+
Start	1	End	3291
Name	OJ990319_05.9819.C25.o1.gp	Method	AAT/GAP
Start	2363	End	3095
GI	2797352	Score	412
Exons	2363..2407, 2787..2953, 3066..3095		
GI Descrip.	3980417 5.0e-17 (AC004561) pumilio-like protein [Arabidopsis thaliana]		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.tm	Method	TBLASTX:Maize
Start	56	End	2849
GI	none	Score	175
Exons	56..298, 57..296, 65..298, 380..523, 381..524, 381..533, 385..534, 703..780, 716..817, 746..820, 767..823, 769..816, 1611..1826, 1611..1826, 1631..1843, 1697..1837, 1886..2020, 1887..2012, 1909..2019, 2204..2407, 2206..2409, 2209..2406, 2211..2411, 2789..2848, 2790..2849		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o3.ts	Method	TBLASTX:Soybean
Start	65	End	2374
GI	none	Score	89
Exons	65..304, 66..296, 364..513, 378..536, 381..536, 386..535, 707..823, 709..852, 746..823, 1611..1826, 1611..1826, 1611..1826, 1635..1826, 1700..1822, 2204..2374		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.tc	Method	TBLASTX:Cress
Start	378	End	2269
GI	none	Score	75
Exons	378..536, 447..539, 746..823, 755..823, 1611..1826, 1659..1826, 1694..1822, 1907..2026, 1945..2013, 2204..2269		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o3.tm	Method	TBLASTX:Maize
Start	4494	End	4837
GI	none	Score	57
Exons	4494..4598, 4520..4585, 4646..4837, 4655..4837		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.gs	Method	GENSCAN
Start	4643	End	8115
GI	none	Score	.92



Exons 4643..4899, 5130..5367, 5503..5809, 6277..6371, 7813..8115

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o1.tw	Method	TBLASTX:Wheat
Start	4652	End	5349
GI	none	Score	130
Exons	4652..4828, 4658..4813, 4823..4906, 4827..4919, 5203..5349		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.np	Method	AAT/NAP
Start	4652	End	7524
GI	4138581	Score	433
Exons	4652..4899, 5130..5367, 5476..5534, 5586..5809, 6277..6350, 7496..7524		
GI Descrip.	(X98474) mitochondrial energy transfer protein [Solanum tuberosum]		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o1.tc	Method	TBLASTX:Cress
Start	4655	End	6372
GI	none	Score	227
Exons	4655..4903, 4656..4904, 5128..5259, 5129..5254, 5284..5370, 5285..5368, 5476..5811, 5588..5812, 6276..6368, 6277..6372		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.gp	Method	AAT/GAP
Start	4677	End	5642
GI	11156_1.R1084	Score	1082
Exons	4677..4899, 5130..5367, 5476..5642		
GI Descrip.	'4049342/emb CAA22567.1  1.0e-30 (AL034567) adenylate translocator (brittle-1)-like protein [Arabidopsis thaliana]'		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o2.ts	Method	TBLASTX:Soybean
Start	4697	End	5310
GI	none	Score	205
Exons	4697..4903, 4698..4904, 5128..5310, 5129..5296		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o1.tm	Method	TBLASTX:Maize
Start	5131	End	6374
GI	none	Score	251
Exons	5131..5370, 5132..5368, 5474..5812, 5476..5814, 5476..5811, 5570..5815, 6276..6368, 6276..6374, 6277..6369		

Seq. No.	29763	Seq. ID	OJ990319_05.9819.C25
Gene No.	61486	Strand	-
Start	4643	End	8115
Name	OJ990319_05.9819.C25.o1.ts	Method	TBLASTX:Soybean
Start	5476	End	6374
GI	none	Score	245
Exons	5476..5811, 5585..5812, 6276..6374, 6277..6354		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61487	Strand	+
Start	308	End	21456
Name	OJ990319_05.9819.C26.o1.gs	Method	GENSCAN
Start	308	End	16365
GI	none	Score	.68
Exons	308..447, 1638..2016, 2634..2750, 2958..3040, 4220..4331, 5180..5244, 5332..5480, 7052..7077, 7490..8005, 8361..8498, 9163..9298, 10447..10643, 11043..12302, 12382..13761, 14000..14125, 14608..14852, 15015..16365		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61487	Strand	+
Start	308	End	21456
Name	OJ990319_05.9819.C26.o3.np	Method	AAT/NAP
Start	5759	End	21456
GI	4680183	Score	182
Exons	5759..5843, 20644..20759, 21367..21456		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61487	Strand	+
Start	308	End	21456
Name	OJ990319_05.9819.C26.o2.np	Method	AAT/NAP
Start	5791	End	15609
GI	2842700	Score	452
Exons	5791..5864, 12759..12781, 12866..12966, 13087..13521, 13581..13671, 13714..13761, 13854..13902, 13991..14125, 14605..14852, 14937..15136, 15167..15321, 15472..15609		
GI Descrip.	HYPOTHETICAL 192.5 KD PROTEIN C6G9.10C IN CHROMOSOME I gi 1644322 emb CAB03612.1  (Z81317) DNA2-NAM7 helicase family protein [Schizosaccharomyces pombe]		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61487	Strand	+
Start	308	End	21456
Name	OJ990319_05.9819.C26.o1.gp	Method	AAT/GAP
Start	10775	End	11317
GI	none	Score	880
Exons	10775..11003, 11089..11317		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61488	Strand	+
Start	21682	End	22797
Name	OJ990319_05.9819.C26.o3.gs	Method	GENSCAN
Start	21682	End	22797
GI	none	Score	.72
Exons	21682..21713, 22108..22264, 22456..22797		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61489	Strand	+
Start	22734	End	23379
Name	OJ990319_05.9819.C26.o4.np	Method	AAT/NAP
Start	22734	End	23379
GI	6721559	Score	394
Exons	22734..23205, 23233..23379		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o1.tw	Method	TBLASTX:Wheat
Start	9114	End	9562
GI	none	Score	160
Exons	9114..9257, 9359..9562		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o1.tm	Method	TBLASTX:Maize
Start	14598	End	14748
GI	none	Score	219
Exons	14598..14744, 14602..14748		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o1.tc	Method	TBLASTX:Cress
Start	14965	End	15327
GI	none	Score	142
Exons	14965..15126, 15027..15125, 15169..15327, 15171..15317		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o1.ts	Method	TBLASTX:Soybean
Start	15039	End	15438
GI	none	Score	119
Exons	15039..15122, 15043..15132, 15160..15438, 15168..15347		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o2.tm	Method	TBLASTX:Maize
Start	15070	End	15327
GI	none	Score	69
Exons	15070..15129, 15169..15327, 15171..15317		

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o3.tm	Method	TBLASTX:Maize
Start	15900	End	16367
GI	none	Score	95

Exons 15900..16013, 15902..16021, 15913..16014, 16042..16089,  
16046..16099, 16046..16096, 16051..16098, 16095..16184,  
16106..16198, 16120..16170, 16128..16184, 16180..16224,  
16184..16225, 16186..16227, 16239..16367, 16241..16366

Seq. No.	29764	Seq. ID	OJ990319_05.9819.C26
Gene No.	61490	Strand	-
Start	17205	End	20333
Name	OJ990319_05.9819.C26.o2.gs	Method	GENSCAN
Start	17205	End	20333
GI	none	Score	.57
Exons	17205..17323, 20180..20333		

Seq. No.	29765	Seq. ID	OJ990319_05.9819.C30
Gene No.	61491	Strand	+
Start	69	End	4167
Name	OJ990319_05.9819.C30.o1.gs	Method	GENSCAN
Start	69	End	4167
GI	none	Score	.59
Exons	69..230, 298..439, 445..615, 1170..1494, 2283..2347, 4046..4167		

Seq. No.	29766	Seq. ID	OJ990319_05.9819.C31
Gene No.	61492	Strand	+
Start	37	End	219
Name	OJ990319_05.9819.C31.o1.gs	Method	GENSCAN
Start	37	End	219
GI	none	Score	.85
Exons	37..219		

Seq. No.	29766	Seq. ID	OJ990319_05.9819.C31
Gene No.	61493	Strand	-
Start	500	End	1198
Name	OJ990319_05.9819.C31.o2.gs	Method	GENSCAN
Start	500	End	1198
GI	none	Score	.49
Exons	500..1198		

Seq. No.	29767	Seq. ID	OJ990319_05.9819.C32
Gene No.	61494	Strand	+
Start	28	End	314
Name	OJ990319_05.9819.C32.o1.gs	Method	GENSCAN
Start	28	End	314
GI	none	Score	.85
Exons	28..74, 141..185, 260..314		

Seq. No.	29768	Seq. ID	OJ990319_05.9819.C35
Gene No.	61495	Strand	-
Start	274	End	358
Name	OJ990319_05.9819.C35.o1.gs	Method	GENSCAN
Start	274	End	358
GI	none	Score	.7
Exons	274..358		

Seq. No.	29769	Seq. ID	OJ990319_07.9819.C1
Gene No.	61496	Strand	-
Start	1	End	1445
Name	OJ990319_07.9819.C1.o1.np	Method	AAT/NAP

Start	1	End	1445
GI	4455338	Score	733
Exons	1..185, 670..1014, 1134..1445		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29769	Seq. ID	OJ990319_07.9819.C1
Gene No.	61496	Strand	-
Start	1	End	1445
Name	OJ990319_07.9819.C1.o1.tc	Method	TBLASTX:Cress
Start	66	End	1015
GI	none	Score	100
Exons	66..185, 67..180, 68..193, 658..1014, 668..799, 742..987, 818..1015		

Seq. No.	29769	Seq. ID	OJ990319_07.9819.C1
Gene No.	61496	Strand	-
Start	1	End	1445
Name	OJ990319_07.9819.C1.o1.gs	Method	GENSCAN
Start	71	End	1287
GI	none	Score	.85
Exons	71..185, 670..1014, 1134..1287		

Seq. No.	29769	Seq. ID	OJ990319_07.9819.C1
Gene No.	61496	Strand	-
Start	1	End	1445
Name	OJ990319_07.9819.C1.o1.ts	Method	TBLASTX:Soybean
Start	904	End	1290
GI	none	Score	51
Exons	904..1029, 937..1017, 1132..1290, 1134..1289		

Seq. No.	29769	Seq. ID	OJ990319_07.9819.C1
Gene No.	61496	Strand	-
Start	1	End	1445
Name	OJ990319_07.9819.C1.o2.tc	Method	TBLASTX:Cress
Start	1131	End	1290
GI	none	Score	113
Exons	1131..1289, 1132..1290, 1132..1278, 1134..1289		

Seq. No.	29770	Seq. ID	OJ990319_07.9819.C2
Gene No.	61497	Strand	+
Start	228	End	689
Name	OJ990319_07.9819.C2.o1.gs	Method	GENSCAN
Start	228	End	689
GI	none	Score	.71
Exons	228..434, 547..689		

Seq. No.	29770	Seq. ID	OJ990319_07.9819.C2
Gene No.	61498	Strand	-
Start	1	End	427
Name	OJ990319_07.9819.C2.o1.gp	Method	AAT/GAP
Start	1	End	427
GI	28329 1.R1084	Score	781
Exons	1..427		
GI Descrip.	'4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]'		

Seq. No.	29771	Seq. ID	OJ990319_07.9819.C5
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Gene No.	61499	Strand	+
Start	501	End	546
Name	OJ990319_07.9819.C5.o1.gs	Method	GENSCAN
Start	501	End	546
GI	none	Score	.6
Exons	501..546		
Seq. No.	29772	Seq. ID	OJ990319_07.9819.C6
Gene No.	61500	Strand	+
Start	130	End	339
Name	OJ990319_07.9819.C6.o1.gs	Method	GENSCAN
Start	130	End	339
GI	none	Score	.62
Exons	130..189, 268..339		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61501	Strand	+
Start	6615	End	7094
Name	OJ990319_07.9819.C8.o2.np	Method	AAT/NAP
Start	6615	End	7094
GI	6069646	Score	207
Exons	6615..7094		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61502	Strand	-
Start	1	End	2732
Name	OJ990319_07.9819.C8.o1.np	Method	AAT/NAP
Start	1	End	2732
GI	6093744	Score	551
Exons	1..115, 1682..2247, 2278..2462, 2565..2732		
GI Descrip.	PECTINESTERASE PPE8B PRECURSOR (PECTIN METHYLESTERASE) (PE) gi 1213629 emb CAA65237  (X95991) pectinesterase [Prunus persica]		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61502	Strand	-
Start	1	End	2732
Name	OJ990319_07.9819.C8.o1.tc	Method	TBLASTX:Cress
Start	28	End	2054
GI	none	Score	72
Exons	28..117, 42..128, 1683..1940, 1684..1842, 1959..2054		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61502	Strand	-
Start	1	End	2732
Name	OJ990319_07.9819.C8.o2.tw	Method	TBLASTX:Wheat
Start	28	End	1979
GI	none	Score	60
Exons	28..141, 1683..1979		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61502	Strand	-

Start	1	End	2732
Name	OJ990319_07.9819.C8.o2.tm	Method	TBLASTX:Maize
Start	28	End	1910
GI	none	Score	76
Exons	28..117, 42..128, 1683..1862, 1684..1845, 1860..1910		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61502	Strand	-
Start	1	End	2732
Name	OJ990319_07.9819.C8.o1.ts	Method	TBLASTX:Soybean
Start	34	End	2237
GI	none	Score	79
Exons	34..177, 42..128, 1686..1928, 1687..1845, 1959..2006, 2025..2237		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61503	Strand	-
Start	6606	End	7076
Name	OJ990319_07.9819.C8.o1.tm	Method	TBLASTX:Maize
Start	6606	End	6888
GI	none	Score	293
Exons	6606..6887, 6607..6888, 6608..6805		
Seq. No.	29773	Seq. ID	OJ990319_07.9819.C8
Gene No.	61503	Strand	-
Start	6606	End	7076
Name	OJ990319_07.9819.C8.o1.tw	Method	TBLASTX:Wheat
Start	6675	End	7076
GI	none	Score	114
Exons	6675..6824, 6903..7076		
Seq. No.	29774	Seq. ID	OJ990319_07.9819.C9
Gene No.	61504	Strand	+
Start	5532	End	7227
Name	OJ990319_07.9819.C9.o2.gs	Method	GENSCAN
Start	5532	End	7227
GI	none	Score	.69
Exons	5532..5548, 6607..6809, 7091..7227		
Seq. No.	29774	Seq. ID	OJ990319_07.9819.C9
Gene No.	61505	Strand	-
Start	1175	End	4762
Name	OJ990319_07.9819.C9.o1.gs	Method	GENSCAN
Start	1175	End	4762
GI	none	Score	.61
Exons	1175..2296, 2380..2458, 2581..3623, 4634..4762		
Seq. No.	29775	Seq. ID	OJ990319_07.9819.C12
Gene No.	61506	Strand	-
Start	458	End	489
Name	OJ990319_07.9819.C12.o1.gs	Method	GENSCAN
Start	458	End	489
GI	none	Score	.61
Exons	458..489		
Seq. No.	29776	Seq. ID	OJ990319_07.9819.C14
Gene No.	61507	Strand	+
Start	1	End	616

Name	OJ990319_07.9819.C14.o1.np	Method	AAT/NAP
Start	1	End	401
GI	4455338	Score	253
Exons	1..401		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29776	Seq. ID	OJ990319_07.9819.C14
Gene No.	61507	Strand	+
Start	1	End	616
Name	OJ990319_07.9819.C14.o1.gs	Method	GENSCAN
Start	96	End	616
GI	none	Score	.53
Exons	96..616		

Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	1389
GI	6815072	Score	1320
Exons	1..1389		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	210	End	562
GI	none	Score	128
Exons	210..389, 211..378, 380..562		

Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o1.gs	Method	GENSCAN
Start	476	End	4038
GI	none	Score	.63
Exons	476..1113, 1511..1676, 1782..2058, 2132..2225, 2299..2429, 2512..2593, 2702..2828, 2925..3016, 3163..3451, 3959..4038		

Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	866	End	1123
GI	none	Score	205
Exons	866..1123, 877..1080		

Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o2.tm	Method	TBLASTX:Maize
Start	869	End	1188
GI	none	Score	216
Exons	869..1090, 871..1089, 1100..1144, 1123..1188		



Seq. No.	29777	Seq. ID	OJ990319_07.9819.C15
Gene No.	61508	Strand	+
Start	1	End	4038
Name	OJ990319_07.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	1147	End	1296
GI	none	Score	188
Exons	1147..1296, 1159..1263, 1161..1295		

Seq. No.	29778	Seq. ID	OJ990319_07.9819.C16
Gene No.	61509	Strand	+
Start	65	End	313
Name	OJ990319_07.9819.C16.o1.gp	Method	AAT/GAP
Start	65	End	313
GI	none	Score	468
Exons	65..313		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61510	Strand	+
Start	497	End	1354
Name	OJ990319_07.9819.C19.o1.np	Method	AAT/NAP
Start	497	End	1222
GI	6093744	Score	834
Exons.	497..868, 896..1222		
GI Descrip.	PECTINESTERASE PPE8B PRECURSOR (PECTIN METHYLESTERASE) (PE) gi 1213629 emb CAA65237  (X95991) pectinesterase [Prunus persica]		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61510	Strand	+
Start	497	End	1354
Name	OJ990319_07.9819.C19.o1.gs	Method	GENSCAN
Start	498	End	1225
GI	none	Score	.88
Exons	498..1225		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61510	Strand	+
Start	497	End	1354
Name	OJ990319_07.9819.C19.o1.gp	Method	AAT/GAP
Start	751	End	1354
GI	5607338	Score	1046
Exons	751..1354		
GI Descrip.	1279602/emb CAA96436  3.0e-14 (Z71754) pectin methylesterase [Nicotiana plumbaginifolia]		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61511	Strand	+
Start	1515	End	2159
Name	OJ990319_07.9819.C19.o2.gp	Method	AAT/GAP
Start	1515	End	2159
GI	38333_1.R1084	Score	1242
Exons	1515..2159		
GI Descrip.	'2239262/emb CAA73733  4.0e-48 (Y13285) pectin methylesterase-like protein [Zea mays]'		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-

Start	1622	End	5477
Name	OJ990319_07.9819.C19.o1.ts	Method	TBLASTX:Soybean
Start	436	End	3235
GI	none	Score	482
Exons	436..849, 485..865, 902..1219, 916..1218, 1631..1930, 1695..1898, 1955..2314, 1959..2315, 2397..2567, 2424..2561, 2431..2562, 3179..3235		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	485	End	3259
GI	none	Score	370
Exons	485..868, 505..834, 917..1108, 923..979, 1066..1194, 1067..1231, 1599..1745, 1622..1852, 1623..1853, 1730..2320, 1740..2321, 2349..2564, 2403..2567, 2434..2568, 2654..2737, 2658..2759, 2660..2794, 2774..2854, 3066..3239, 3069..3251, 3092..3256, 3092..3259		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o1.tc	Method	TBLASTX:Cress
Start	485	End	3235
GI	none	Score	395
Exons	485..868, 496..843, 919..1215, 920..1216, 1631..1927, 1710..1922, 1955..2326, 1986..2327, 2409..2567, 2434..2568, 2658..2738, 2660..2755, 3128..3235		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o1.tw	Method	TBLASTX:Wheat
Start	535	End	2288
GI	none	Score	347
Exons	535..843, 536..865, 920..994, 925..996, 1868..1942, 1881..1934, 1955..2101, 1955..2287, 1986..2288		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o3.tw	Method	TBLASTX:Wheat
Start	998	End	1865
GI	none	Score	180
Exons	998..1216, 1000..1212, 1631..1864, 1635..1865		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o2.gs	Method	GENSCAN
Start	1622	End	5477
GI	none	Score	.58
Exons	1622..2322, 2405..2565, 2661..3812, 4322..4471, 5410..5477		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-

Start	1622	End	5477
Name	OJ990319_07.9819.C19.o2.np	Method	AAT/NAP
Start	1631	End	3787
GI	6714532	Score	1360
Exons	1631..2322, 2405..2565, 2661..2907, 3076..3787		
GI Descrip.	(AB029461) pectin methylesterase [Salix gilgiana]		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o2.tw	Method	TBLASTX:Wheat
Start	2391	End	2809
GI	none	Score	70
Exons	2391..2564, 2409..2564, 2443..2571, 2666..2743, 2672..2809, 2679..2756		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o3.gp	Method	AAT/GAP
Start	2696	End	3076
GI	none	Score	736
Exons	2696..3076		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o2.tm	Method	TBLASTX:Maize
Start	3273	End	3792
GI	none	Score	101
Exons	3273..3452, 3275..3451, 3498..3572, 3498..3563, 3503..3574, 3631..3789, 3641..3790, 3684..3791, 3700..3792		

Seq. No.	29779	Seq. ID	OJ990319_07.9819.C19
Gene No.	61512	Strand	-
Start	1622	End	5477
Name	OJ990319_07.9819.C19.o4.gp	Method	AAT/GAP
Start	3321	End	3910
GI	28329_1.R1084	Score	1110
Exons	3321..3910		
GI Descrip.	'4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]'		

Seq. No.	29780	Seq. ID	OJ990319_07.9819.C22
Gene No.	61513	Strand	+
Start	359	End	1352
Name	OJ990319_07.9819.C22.o1.gs	Method	GENSCAN
Start	359	End	1352
GI	none	Score	.73
Exons	359..478, 1239..1352		

Seq. No.	29780	Seq. ID	OJ990319_07.9819.C22
Gene No.	61514	Strand	-
Start	538	End	753
Name	OJ990319_07.9819.C22.o1.gp	Method	AAT/GAP
Start	538	End	753
GI	5851104	Score	432

Exons 538..753  
 GI Descrip. 5441876/dbj|AP000367.1|AP000367 2.0e-10 Oryza sativa genomic  
 DNA, chromosome 2, clone:P0437H03 (contig b)

Seq. No.	29781	Seq. ID	OJ990319_07.9819.C23
Gene No.	61515	Strand	-
Start	1	End	976
Name	OJ990319_07.9819.C23.o1.np	Method	AAT/NAP
Start	1	End	976
GI	4585985	Score	553
Exons	1..976		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29781	Seq. ID	OJ990319_07.9819.C23
Gene No.	61515	Strand	-
Start	1	End	976
Name	OJ990319_07.9819.C23.o1.gs	Method	GENSCAN
Start	157	End	869
GI	none	Score	.56
Exons	157..869		

Seq. No.	29782	Seq. ID	OJ990319_07.9819.C24
Gene No.	61516	Strand	-
Start	169	End	631
Name	OJ990319_07.9819.C24.o1.gs	Method	GENSCAN
Start	169	End	631
GI	none	Score	.62
Exons	169..279, 557..631		

Seq. No.	29783	Seq. ID	OJ990319_07.9819.C25
Gene No.	61517	Strand	-
Start	350	End	750
Name	OJ990319_07.9819.C25.o1.gs	Method	GENSCAN
Start	350	End	750
GI	none	Score	.72
Exons	350..550, 700..750		

Seq. No.	29784	Seq. ID	OJ990319_07.9819.C26
Gene No.	61518	Strand	-
Start	1	End	719
Name	OJ990319_07.9819.C26.o1.np	Method	AAT/NAP
Start	1	End	719
GI	4455338	Score	299
Exons	1..124, 244..397, 662..719		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29784	Seq. ID	OJ990319_07.9819.C26
Gene No.	61518	Strand	-
Start	1	End	719
Name	OJ990319_07.9819.C26.o1.tc	Method	TBLASTX:Cress
Start	65	End	715
GI	none	Score	193
Exons	65..139, 242..409, 242..388, 243..389, 244..399, 662..715, 664..714		

Seq. No.	29784	Seq. ID	OJ990319_07.9819.C26
Gene No.	61518	Strand	-

Start	1	End	719
Name	OJ990319_07.9819.C26.o1.ts	Method	TBLASTX:Soybean
Start	242	End	715
GI	none	Score	107
Exons	242..406, 244..399, 662..715, 664..714		
Seq. No.	29784	Seq. ID	OJ990319_07.9819.C26
Gene No.	61518	Strand	-
Start	1	End	719
Name	OJ990319_07.9819.C26.o1.gs	Method	GENSCAN
Start	244	End	397
GI	none	Score	.91
Exons	244..397		
Seq. No.	29785	Seq. ID	OJ990319_07.9819.C28
Gene No.	61519	Strand	-
Start	1073	End	3593
Name	OJ990319_07.9819.C28.o1.gs	Method	GENSCAN
Start	1073	End	3593
GI	none	Score	.85
Exons	1073..1271, 1359..1499, 1747..1834, 2083..2132, 2954..3084, 3366..3593		
Seq. No.	29786	Seq. ID	OJ990319_07.9819.C29
Gene No.	61520	Strand	-
Start	871	End	2193
Name	OJ990319_07.9819.C29.o1.gp	Method	AAT/GAP
Start	406	End	553
GI	26906 2.R1084	Score	172
Exons	406..553		
GI Descrip.	'4680488/gb AF119222.1 AF119222 4.0e-33 Oryza sativa BAC clone 1.H19, complete sequence'		
Seq. No.	29786	Seq. ID	OJ990319_07.9819.C29
Gene No.	61520	Strand	-
Start	871	End	2193
Name	OJ990319_07.9819.C29.o1.gs	Method	GENSCAN
Start	871	End	2193
GI	none	Score	.73
Exons	871..1060, 1671..1806, 1965..2193		
Seq. No.	29787	Seq. ID	OJ990319_07.9819.C30
Gene No.	61521	Strand	+
Start	5411	End	9566
Name	OJ990319_07.9819.C30.o2.gs	Method	GENSCAN
Start	5411	End	9566
GI	none	Score	.73
Exons	5411..5665, 5992..6077, 6151..6235, 8792..8872, 8964..9050, 9108..9566		
Seq. No.	29787	Seq. ID	OJ990319_07.9819.C30
Gene No.	61522	Strand	-
Start	5541	End	6087
Name	OJ990319_07.9819.C30.o1.gp	Method	AAT/GAP
Start	5541	End	6087
GI	4881101	Score	775
Exons	5541..5627, 5733..6087		

Seq. No.	29787	Seq. ID	OJ990319_07.9819.C30
Gene No.	61523	Strand	-
Start	8286	End	11112
Name	OJ990319_07.9819.C30.o1.np	Method	AAT/NAP
Start	8286	End	11019
GI	6815109	Score	128
Exons	8286..9372, 10995..11019		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29787	Seq. ID	OJ990319_07.9819.C30
Gene No.	61523	Strand	-
Start	8286	End	11112
Name	OJ990319_07.9819.C30.o2.np	Method	AAT/NAP
Start	10096	End	11112
GI	4680183	Score	202
Exons	10096..10185, 10796..10885, 11004..11112		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648
Name	OJ990319_07.9819.C31.o1.np	Method	AAT/NAP
Start	1	End	324
GI	4455338	Score	339
Exons	1..324		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648
Name	OJ990319_07.9819.C31.o1.tm	Method	TBLASTX:Maize
Start	70	End	324
GI	none	Score	218
Exons	70..324, 72..314, 103..258		

Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648
Name	OJ990319_07.9819.C31.o1.ts	Method	TBLASTX:Soybean
Start	72	End	331
GI	none	Score	197
Exons	72..311, 72..314, 73..327, 119..331		

Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648
Name	OJ990319_07.9819.C31.o1.gp	Method	AAT/GAP
Start	161	End	317
GI	2312057	Score	236
Exons	161..317		
GI Descrip.	4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648

Name	OJ990319_07.9819.C31.o1.gs	Method	GENSCAN
Start	185	End	648
GI	none	Score	.77
Exons	185..317, 619..648		
Seq. No.	29788	Seq. ID	OJ990319_07.9819.C31
Gene No.	61524	Strand	-
Start	1	End	648
Name	OJ990319_07.9819.C31.o1.tc	Method	TBLASTX:Cress
Start	204	End	326
GI	none	Score	160
Exons	204..311, 205..312, 210..326		
Seq. No.	29789	Seq. ID	OJ990319_07.9819.C32
Gene No.	61525	Strand	+
Start	383	End	547
Name	OJ990319_07.9819.C32.o1.gs	Method	GENSCAN
Start	383	End	547
GI	none	Score	.95
Exons	383..547		
Seq. No.	29790	Seq. ID	OJ990319_07.9819.C35
Gene No.	61526	Strand	+
Start	327	End	488
Name	OJ990319_07.9819.C35.o1.gs	Method	GENSCAN
Start	327	End	488
GI	none	Score	.49
Exons	327..488		
Seq. No.	29790	Seq. ID	OJ990319_07.9819.C35
Gene No.	61527	Strand	-
Start	1	End	228
Name	OJ990319_07.9819.C35.o1.np	Method	AAT/NAP
Start	1	End	228
GI	4455338	Score	100
Exons	1..228		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		
Seq. No.	29791	Seq. ID	OJ990319_07.9819.C37
Gene No.	61528	Strand	+
Start	64	End	167
Name	OJ990319_07.9819.C37.o1.gs	Method	GENSCAN
Start	64	End	167
GI	none	Score	.99
Exons	64..167		
Seq. No.	29792	Seq. ID	OJ990319_07.9819.C39
Gene No.	61529	Strand	-
Start	19	End	44
Name	OJ990319_07.9819.C39.o1.gs	Method	GENSCAN
Start	19	End	44
GI	none	Score	.97
Exons	19..44		
Seq. No.	29793	Seq. ID	OJ990319_07.9819.C40
Gene No.	61530	Strand	+
Start	130	End	409

Name OJ990319\_07.9819.C40.o1.gs  
 Start 130  
 GI none  
 Exons 130..186, 232..409

Method GENSCAN  
 End 409  
 Score .83

Seq. No. 29794  
 Gene No. 61531  
 Start 105  
 Name OJ990319\_07.9819.C41.o1.gs  
 Start 105  
 GI none  
 Exons 105..212, 299..430

Seq. ID OJ990319\_07.9819.C41  
 Strand +  
 End 430  
 Method GENSCAN  
 End 430  
 Score .64

Seq. No. 29795  
 Gene No. 61532  
 Start 112  
 Name OJ990319\_07.9819.C42.o1.gp  
 Start 112  
 GI none  
 Exons 112..177

Seq. ID OJ990319\_07.9819.C42  
 Strand -  
 End 177  
 Method AAT/GAP  
 End 177  
 Score 78

Seq. No. 29796  
 Gene No. 61533  
 Start 1016  
 Name OJ990319\_07.9819.C44.o1.gs  
 Start 1016  
 GI none  
 Exons 1016..1143

Seq. ID OJ990319\_07.9819.C44  
 Strand -  
 End 1143  
 Method GENSCAN  
 End 1143  
 Score .47

Seq. No. 29797  
 Gene No. 61534  
 Start 1  
 Name OJ990319\_07.9819.C45.o1.np  
 Start 1  
 GI 5295955  
 Exons 1..39, 1845..1918, 2460..2573, 2758..2853  
 GI Descrip. (AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]

Seq. ID OJ990319\_07.9819.C45  
 Strand +  
 End 2853  
 Method AAT/NAP  
 End 2853  
 Score 148

Seq. No. 29797  
 Gene No. 61534  
 Start 1  
 Name OJ990319\_07.9819.C45.o2.np  
 Start 1  
 GI 4680183  
 Exons 1..59, 1849..1918, 2526..2617  
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. ID OJ990319\_07.9819.C45  
 Strand +  
 End 2853  
 Method AAT/NAP  
 End 2617  
 Score 132

Seq. No. 29797  
 Gene No. 61534  
 Start 1  
 Name OJ990319\_07.9819.C45.o1.gs  
 Start 1540  
 GI none  
 Exons 1540..1616, 1704..1790, 1849..1984, 2396..2514

Seq. ID OJ990319\_07.9819.C45  
 Strand +  
 End 2853  
 Method GENSCAN  
 End 2514  
 Score .93

Seq. No. 29798 Seq. ID OJ990319\_07.9819.C46



Gene No. 61535  
 Start 425  
 Name OJ990319\_07.9819.C46.o1.gs  
 Start 425  
 GI none  
 Exons 425..535, 1503..1517

Strand +  
 End 1517  
 Method GENSCAN  
 End 1517  
 Score .57

Seq. No. 29799  
 Gene No. 61536  
 Start 1  
 Name OJ990319\_07.9819.C47.o1.np  
 Start 1  
 GI 4455338  
 Exons 1..50, 1001..1709, 1972..2125, 2245..2566  
 GI Descrip. (AL035525) putative protein [Arabidopsis thaliana]

Seq. ID OJ990319\_07.9819.C47  
 Strand +  
 End 2566  
 Method AAT/NAP  
 End 2566  
 Score 896

Seq. No. 29799  
 Gene No. 61536  
 Start 1  
 Name OJ990319\_07.9819.C47.o1.gs  
 Start 226  
 GI none  
 Exons 226..272, 1008..1709, 1972..2125, 2245..2416

Seq. ID OJ990319\_07.9819.C47  
 Strand +  
 End 2566  
 Method GENSCAN  
 End 2416  
 Score .91

Seq. No. 29799  
 Gene No. 61536  
 Start 1  
 Name OJ990319\_07.9819.C47.o1.tm  
 Start 1409  
 GI none  
 Exons 1409..1636, 1411..1647, 1423..1635, 1424..1636, 1563..1664, 1631..1708, 1632..1706, 1632..1709, 1633..1707, 1963..2040, 1970..2041

Seq. ID OJ990319\_07.9819.C47  
 Strand +  
 End 2566  
 Method TBLASTX:Maize  
 End 2041  
 Score 167

Seq. No. 29799  
 Gene No. 61536  
 Start 1  
 Name OJ990319\_07.9819.C47.o1.ts  
 Start 1555  
 GI none  
 Exons 1555..1707, 1558..1707, 1575..1709, 1963..2127, 1970..2125, 2230..2355, 2242..2322

Seq. ID OJ990319\_07.9819.C47  
 Strand +  
 End 2566  
 Method TBLASTX:Soybean  
 End 2355  
 Score 177

Seq. No. 29799  
 Gene No. 61536  
 Start 1  
 Name OJ990319\_07.9819.C47.o1.tc  
 Start 1650  
 GI none  
 Exons 1650..1709, 1651..1707, 1960..2127, 1970..2125, 1981..2127, 2230..2382, 2232..2363

Seq. ID OJ990319\_07.9819.C47  
 Strand +  
 End 2566  
 Method TBLASTX:Cress  
 End 2382  
 Score 89

Seq. No. 29800  
 Gene No. 61537  
 Start 105  
 Name OJ990319\_07.9819.C48.o1.gs  
 Start 105

Seq. ID OJ990319\_07.9819.C48  
 Strand +  
 End 5022  
 Method GENSCAN  
 End 5009

GI	none	Score	.65
Exons	105..803, 875..1203, 1272..1395, 1464..1634, 1751..2303, 2349..3211, 4210..4473, 4884..5009		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o1.np	Method	AAT/NAP
Start	622	End	5022
GI	4455338	Score	1830
Exons	622..803, 875..1203, 1272..1395, 1464..1634, 1751..1911, 1939..3211, 4210..4473, 5002..5022		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o2.tm	Method	TBLASTX:Maize
Start	681	End	1215
GI	none	Score	147
Exons	681..803, 851..970, 976..1215, 977..1207		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o1.tc	Method	TBLASTX:Cress
Start	872	End	1377
GI	none	Score	502
Exons	872..1207, 872..1201, 901..1203, 1262..1366, 1264..1377, 1273..1374		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o1.ts	Method	TBLASTX:Soybean
Start	980	End	1532
GI	none	Score	396
Exons	980..1207, 982..1203, 1244..1396, 1264..1398, 1270..1398, 1461..1532, 1463..1501		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o1.gp	Method	AAT/GAP
Start	1078	End	1551
GI	569650	Score	592
Exons	1078..1203, 1272..1395, 1464..1551		
GI Descrip.	4455338/emb CAB36798.1  3.0e-27 (AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o4.tm	Method	TBLASTX:Maize
Start	1461	End	1843
GI	none	Score	197
Exons	1461..1631, 1461..1610, 1463..1636, 1463..1636, 1750..1836,		

1750..1818, 1763..1837, 1781..1843

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o1.tm	Method	TBLASTX:Maize
Start	2109	End	2803
GI	none	Score	485
Exons	2109..2720, 2117..2344, 2224..2358, 2407..2739, 2408..2740, 2409..2597, 2410..2739, 2700..2798, 2701..2799, 2702..2803		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o4.tc	Method	TBLASTX:Cress
Start	2390	End	2709
GI	none	Score	79
Exons	2390..2500, 2507..2698, 2528..2668, 2581..2709		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o3.ts	Method	TBLASTX:Soybean
Start	2510	End	2736
GI	none	Score	112
Exons	2510..2647, 2512..2697, 2516..2731, 2518..2736		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o2.tc	Method	TBLASTX:Cress
Start	2867	End	3201
GI	none	Score	478
Exons	2867..3199, 2890..3201, 2997..3200, 3007..3201		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o2.ts	Method	TBLASTX:Soybean
Start	2867	End	4478
GI	none	Score	522
Exons	2867..3214, 2875..3213, 4206..4322, 4210..4317, 4351..4473, 4357..4473, 4359..4478		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o3.tm	Method	TBLASTX:Maize
Start	2924	End	4490
GI	none	Score	454
Exons	2924..3214, 2926..3213, 2931..3218, 4206..4322, 4209..4367, 4220..4414, 4351..4458, 4352..4459, 4352..4465, 4357..4473, 4359..4490		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022

Name	OJ990319_07.9819.C48.o3.tc	Method	TBLASTX:Cress
Start	4206	End	4491
GI	none	Score	135
Exons	4206..4322, 4210..4317, 4334..4468, 4350..4469, 4351..4479, 4357..4491		

Seq. No.	29800	Seq. ID	OJ990319_07.9819.C48
Gene No.	61537	Strand	+
Start	105	End	5022
Name	OJ990319_07.9819.C48.o2.gp	Method	AAT/GAP
Start	4273	End	4477
GI	2312057	Score	374
Exons	4273..4477		
GI Descrip.	4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61538	Strand	+
Start	590	End	1259
Name	OJ990319_07.9819.C49.o1.gs	Method	GENSCAN
Start	590	End	1244
GI	none	Score	.97
Exons	590..619, 921..1244		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61538	Strand	+
Start	590	End	1259
Name	OJ990319_07.9819.C49.o1.gp	Method	AAT/GAP
Start	921	End	1077
GI	2312057	Score	236
Exons	921..1077		
GI Descrip.	4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61538	Strand	+
Start	590	End	1259
Name	OJ990319_07.9819.C49.o1.np	Method	AAT/NAP
Start	924	End	1259
GI	4455338	Score	386
Exons	924..1259		
GI Descrip.	(AL035525) putative protein [Arabidopsis thaliana]		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61539	Strand	+
Start	2454	End	4365
Name	OJ990319_07.9819.C49.o2.np	Method	AAT/NAP
Start	2454	End	4365
GI	2129647	Score	257
Exons	2454..2869, 2898..2972, 4343..4365		
GI Descrip.	MYB-related protein 33,2K - Arabidopsis thaliana gi 1263097 emb CAA90810  (Z54137) MYB-related protein [Arabidopsis thaliana]		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61540	Strand	+
Start	5241	End	5319

Name OJ990319\_07.9819.C49.o2.gp  
 Start 5241  
 GI none  
 Exons 5241..5319

Method AAT/GAP  
 End 5319  
 Score 135

Seq. No. 29801  
 Gene No. 61541  
 Start 6198  
 Name OJ990319\_07.9819.C49.o3.gs  
 Start 6198  
 GI none  
 Exons 6198..6281, 6918..7003, 7092..7158, 7246..7308, 7386..7487, 7613..7717, 7802..7894, 8434..8522, 9103..9322, 9870..9953, 10275..10391, 10643..10729, 10820..10882, 12285..12377, 12785..12973, 13046..13146, 13971..14050, 14505..14869

Seq. ID OJ990319\_07.9819.C49  
 Strand +  
 End 14869  
 Method GENSCAN  
 End 14869  
 Score .81

Seq. No. 29801  
 Gene No. 61541  
 Start 6198  
 Name OJ990319\_07.9819.C49.o3.gp  
 Start 6204  
 GI none  
 Exons 6204..6284

Seq. ID OJ990319\_07.9819.C49  
 Strand +  
 End 14869  
 Method AAT/GAP  
 End 6284  
 Score 115

Seq. No. 29801  
 Gene No. 61541  
 Start 6198  
 Name OJ990319\_07.9819.C49.o4.gp  
 Start 6918  
 GI none  
 Exons 6918..7003, 7092..7165

Seq. ID OJ990319\_07.9819.C49  
 Strand +  
 End 14869  
 Method AAT/GAP  
 End 7165  
 Score 237

Seq. No. 29801  
 Gene No. 61541  
 Start 6198  
 Name OJ990319\_07.9819.C49.o5.gp  
 Start 10366  
 GI 16364\_1.R1084  
 Exons 10366..10391, 10495..10527, 10643..10729, 10820..10882, 11887..12003, 12285..12377, 12848..12973, 13046..13146, 13971..14039

Seq. ID OJ990319\_07.9819.C49  
 Strand +  
 End 14869  
 Method AAT/GAP  
 End 14039  
 Score 1243

GI Descrip. '731529/sp|P40094|YEY7\_YEAST 5.0e-10 HYPOTHETICAL 92.5 KD PROTEIN IN BEM2-NCB1 INTERGENIC REGION >gi\_1077719\_pir\_S50660 hypothetical protein YER157w - yeast (Saccharomyces cerevisiae) >gi\_603397 (U18917) Yer157wp [Saccharomyces cerevisiae]'

Seq. No. 29801  
 Gene No. 61542  
 Start 17371  
 Name OJ990319\_07.9819.C49.o3.np  
 Start 17371  
 GI 6006370  
 Exons 17371..17472

Seq. ID OJ990319\_07.9819.C49  
 Strand +  
 End 17472  
 Method AAT/NAP  
 End 17472  
 Score 68

GI Descrip. (AP000559) hypothetical protein [Oryza sativa]

Seq. No. 29801  
 Gene No. 61543

Seq. ID OJ990319\_07.9819.C49  
 Strand +

Start	21234	End	23650
Name	OJ990319_07.9819.C49.o4.np	Method	AAT/NAP
Start	21234	End	23650
GI	5852172	Score	112
Exons	21234..21270, 23490..23650		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61544	Strand	+
Start	24184	End	24878
Name	OJ990319_07.9819.C49.o7.gp	Method	AAT/GAP
Start	24184	End	24878
GI	uC-osroM202033a01a1	Score	932
Exons	24184..24421, 24635..24878		
GI Descrip.	'4455338/emb CAB36798.1  3.0e-35 (AL035525) putative protein [Arabidopsis thaliana]'		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61545	Strand	-
Start	1675	End	4148
Name	OJ990319_07.9819.C49.o2.gs	Method	GENSCAN
Start	1675	End	4148
GI	none	Score	.76
Exons	1675..1743, 2607..2867, 2960..3081, 3545..4148		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o1.ts	Method	TBLASTX:Soybean
Start	907	End	1220
GI	none	Score	138
Exons	907..1119, 911..1216, 924..1220		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o5.tm	Method	TBLASTX:Maize
Start	911	End	1029
GI	none	Score	193
Exons	911..1027, 921..1028, 921..1028, 922..1029		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o2.tm	Method	TBLASTX:Maize
Start	1029	End	1481
GI	none	Score	366
Exons	1029..1256, 1031..1246, 1034..1258, 1431..1481		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o6.tc	Method	TBLASTX:Cress
Start	1062	End	1257
GI	none	Score	191
Exons	1062..1226, 1064..1231, 1213..1257		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o3.tm	Method	TBLASTX:Maize
Start	2468	End	2774
GI	none	Score	306
Exons	2468..2761, 2469..2774, 2502..2762		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o3.tc	Method	TBLASTX:Cress
Start	2469	End	2768
GI	none	Score	288
Exons	2469..2768, 2474..2767		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o3.ts	Method	TBLASTX:Soybean
Start	2469	End	2768
GI	none	Score	292
Exons	2469..2768, 2534..2767		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o3.tw	Method	TBLASTX:Wheat
Start	2568	End	2765
GI	none	Score	186
Exons	2568..2756, 2577..2765		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o5.tc	Method	TBLASTX:Cress
Start	3879	End	6980
GI	none	Score	71
Exons	3879..3953, 4044..4136, 4048..4149, 4917..4970, 4924..4962, 5041..5121, 5043..5141, 5197..5313, 5209..5322, 6203..6283, 6204..6284, 6210..6284, 6918..6980		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o2.tw	Method	TBLASTX:Wheat
Start	4687	End	5306
GI	none	Score	56
Exons	4687..4737, 4915..4965, 4916..4963, 5037..5120, 5041..5121, 5042..5119, 5043..5144, 5221..5304, 5225..5305, 5256..5306		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o1.tm	Method	TBLASTX:Maize
Start	7379	End	12928
GI	none	Score	98

Exons 7379..7483, 7391..7492, 7392..7490, 7576..7719, 7610..7723, 7612..7719, 7616..7723, 7802..7894, 7804..7893, 8431..8523, 8431..8523, 8433..8525, 8433..8525, 9103..9321, 9104..9325, 9867..9956, 10262..10393, 10275..10391, 10275..10394, 10279..10395, 10283..10393, 10488..10526, 10490..10525, 10491..10526, 10492..10527, 10640..10741, 10640..10741, 10642..10743, 10817..10882, 10817..10882, 10819..10884, 11880..12002, 11880..12005, 11881..12003, 12283..12369, 12287..12370, 12288..12380, 12294..12377, 12850..12921, 12851..12925, 12857..12928

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o1.tc	Method	TBLASTX:Cress
Start	7382	End	8523
GI	none	Score	124
Exons	7382..7489, 7383..7490, 7610..7723, 7612..7722, 7802..7897, 7807..7896, 8431..8523, 8445..8519		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o1.tw	Method	TBLASTX:Wheat
Start	7801	End	9289
GI	none	Score	137
Exons	7801..7893, 7802..7894, 7803..7898, 8431..8523, 8431..8523, 8433..8525, 8433..8525, 9103..9285, 9104..9289		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o2.ts	Method	TBLASTX:Soybean
Start	9151	End	13137
GI	none	Score	216
Exons	9151..9321, 9152..9325, 9160..9228, 9269..9325, 9867..9953, 10276..10374, 10283..10387, 10284..10391, 10492..10527, 10492..10527, 10640..10741, 10642..10728, 10817..10882, 10819..10884, 11880..12005, 11881..12003, 12293..12379, 12294..12380, 12844..12975, 12845..12976, 13042..13137, 13046..13135		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o2.tc	Method	TBLASTX:Cress
Start	10305	End	12005
GI	none	Score	119
Exons	10305..10391, 10307..10387, 10492..10527, 10492..10512, 10640..10741, 10642..10728, 10817..10882, 10819..10884, 11880..12002, 11880..12005, 11881..12003		

Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o4.tc	Method	TBLASTX:Cress
Start	12293	End	14100



GI	none	Score	132
Exons	12293..12379, 12294..12380, 12844..12996, 12845..12994, 13042..13119, 13046..13138, 13966..14100, 13968..14036		
Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o4.tm	Method	TBLASTX:Maize
Start	12929	End	14108
GI	none	Score	80
Exons	12929..12994, 12931..12996, 13038..13145, 13042..13146, 13046..13147, 13966..14100, 13967..14098, 13968..14108, 13968..14099, 13972..14103		
Seq. No.	29801	Seq. ID	OJ990319_07.9819.C49
Gene No.	61546	Strand	-
Start	14068	End	14477
Name	OJ990319_07.9819.C49.o6.gp	Method	AAT/GAP
Start	14068	End	14477
GI	none	Score	779
Exons	14068..14477		
Seq. No.	29802	Seq. ID	OJ990319_07.9819.C50
Gene No.	61547	Strand	+
Start	62	End	380
Name	OJ990319_07.9819.C50.o1.gs	Method	GENSCAN
Start	62	End	380
GI	none	Score	.81
Exons	62..127, 207..380		
Seq. No.	29802	Seq. ID	OJ990319_07.9819.C50
Gene No.	61547	Strand	+
Start	62	End	380
Name	OJ990319_07.9819.C50.o1.np	Method	AAT/NAP
Start	74	End	374
GI	1350528	Score	130
Exons	74..374		
GI Descrip.	(L47602) ABA-responsive and embryogenesis-associated gene; LEA-like protein [Picea glauca]		
Seq. No.	29803	Seq. ID	OJ990319_07.9819.C52
Gene No.	61548	Strand	+
Start	161	End	301
Name	OJ990319_07.9819.C52.o1.gs	Method	GENSCAN
Start	161	End	301
GI	none	Score	.4
Exons	161..301		
Seq. No.	29803	Seq. ID	OJ990319_07.9819.C52
Gene No.	61549	Strand	-
Start	1099	End	1317
Name	OJ990319_07.9819.C52.o1.np	Method	AAT/NAP
Start	1099	End	1317
GI	4680183	Score	132
Exons	1099..1188, 1288..1317		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29804	Seq. ID	OJ990319_07.9819.C53
Gene No.	61550	Strand	-
Start	528	End	732
Name	OJ990319_07.9819.C53.o1.gp	Method	AAT/GAP
Start	528	End	732
GI	16364_1.R1084	Score	232
Exons	528..628, 701..732		
GI Descrip.	'731529/sp P40094 YFY7_YEAST 5.0e-10 HYPOTHETICAL 92.5 KD PROTEIN IN BEM2-NCB1 INTERGENIC REGION >gi_1077719_pir_S50660 hypothetical protein YER157w - yeast (Saccharomyces cerevisiae) >gi_603397 (U18917) Yer157wp [Saccharomyces cerevisiae]'		

Seq. No.	29804	Seq. ID	OJ990319_07.9819.C53
Gene No.	61550	Strand	-
Start	528	End	732
Name	OJ990319_07.9819.C53.o1.gs	Method	GENSCAN
Start	528	End	628
GI	none	Score	.71
Exons	528..628		

Seq. No.	29805	Seq. ID	OJ990319_07.9819.C54
Gene No.	61551	Strand	+
Start	157	End	1765
Name	OJ990319_07.9819.C54.o1.gs	Method	GENSCAN
Start	157	End	1765
GI	none	Score	.77
Exons	157..316, 478..538, 640..793, 1191..1765		

Seq. No.	29805	Seq. ID	OJ990319_07.9819.C54
Gene No.	61552	Strand	-
Start	2553	End	3991
Name	OJ990319_07.9819.C54.o2.gs	Method	GENSCAN
Start	2553	End	3991
GI	none	Score	.68
Exons	2553..2771, 3227..3406, 3710..3991		

Seq. No.	29805	Seq. ID	OJ990319_07.9819.C54
Gene No.	61552	Strand	-
Start	2553	End	3991
Name	OJ990319_07.9819.C54.o2.np	Method	AAT/NAP
Start	2933	End	3822
GI	5902448	Score	809
Exons	2933..3822		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	29806	Seq. ID	OJ990319_07.9819.C55
Gene No.	61553	Strand	+
Start	1	End	3309
Name	OJ990319_07.9819.C55.o1.np	Method	AAT/NAP
Start	1	End	2903
GI	6815072	Score	1484
Exons	1..152, 1125..1247, 1346..1681, 1790..2501, 2612..2903		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	29806	Seq. ID	OJ990319_07.9819.C55
Gene No.	61553	Strand	+

Start	1	End	3309
Name	OJ990319_07.9819.C55.o1.gs	Method	GENSCAN
Start	57	End	3309
GI	none	Score	.88
Exons	57..208, 620..804, 892..1026, 1113..2501, 2612..3309		

Seq. No.	29806	Seq. ID	OJ990319_07.9819.C55
Gene No.	61553	Strand	+
Start	1	End	3309
Name	OJ990319_07.9819.C55.o2.tm	Method	TBLASTX:Maize
Start	1430	End	1966
GI	none	Score	70
Exons	1430..1489, 1499..1570, 1598..1966, 1616..1642, 1674..1757, 1867..1932		

Seq. No.	29806	Seq. ID	OJ990319_07.9819.C55
Gene No.	61553	Strand	+
Start	1	End	3309
Name	OJ990319_07.9819.C55.o1.tw	Method	TBLASTX:Wheat
Start	2141	End	2467
GI	none	Score	205
Exons	2141..2392, 2215..2361, 2390..2467		

Seq. No.	29806	Seq. ID	OJ990319_07.9819.C55
Gene No.	61553	Strand	+
Start	1	End	3309
Name	OJ990319_07.9819.C55.o1.tm	Method	TBLASTX:Maize
Start	2185	End	2676
GI	none	Score	196
Exons	2185..2376, 2186..2377, 2387..2491, 2611..2676, 2619..2672		

Seq. No.	29807	Seq. ID	OJ990319_07.9819.C56
Gene No.	61554	Strand	+
Start	1	End	716
Name	OJ990319_07.9819.C56.o1.np	Method	AAT/NAP
Start	1	End	716
GI	6815072	Score	416
Exons	1..716		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	29807	Seq. ID	OJ990319_07.9819.C56
Gene No.	61554	Strand	+
Start	1	End	716
Name	OJ990319_07.9819.C56.o1.gs	Method	GENSCAN
Start	114	End	485
GI	none	Score	.61
Exons	114..333, 361..485		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61555	Strand	+
Start	1455	End	11165
Name	OJ990319_07.9819.C57.o1.gs	Method	GENSCAN
Start	1455	End	11165
GI	none	Score	.7
Exons	1455..1576, 1960..2091, 3183..3293, 3354..3498, 3571..3762, 5259..5347, 5438..5690, 6838..6869, 7273..7408, 7493..7666,		

8135..8563, 8810..8947, 10174..10246, 11092..11165

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61555	Strand	+
Start	1455	End	11165
Name	OJ990319_07.9819.C57.o2.gp	Method	AAT/GAP
Start	7564	End	8901
GI	none	Score	1498
Exons	7564..7666, 8135..8710, 8810..8901		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61556	Strand	-
Start	3594	End	3828
Name	OJ990319_07.9819.C57.o3.tm	Method	TBLASTX:Maize
Start	3319	End	3765
GI	none	Score	203
Exons	3319..3513, 3323..3499, 3330..3509, 3565..3765, 3568..3762		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61556	Strand	-
Start	3594	End	3828
Name	OJ990319_07.9819.C57.o1.gp	Method	AAT/GAP
Start	3594	End	3828
GI	2799094	Score	347
Exons	3594..3828		
GI Descrip.	310727/gb L08787 SYNBLDKPV 1.0e-20 BlueScribe SK Plus cloning vector		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61557	Strand	
Start	5435	End	5819
Name	OJ990319_07.9819.C57.o5.tm	Method	TBLASTX:Maize
Start	5435	End	5819
GI	none	Score	45
Exons	5435..5455, 5436..5456, 5440..5472, 5457..5690, 5458..5691, 5459..5692, 5459..5692, 5783..5818, 5784..5819		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61558	Strand	
Start	7388	End	8500
Name	OJ990319_07.9819.C57.o4.tm	Method	TBLASTX:Maize
Start	7388	End	8500
GI	none	Score	39
Exons	7388..7411, 7491..7577, 7491..7622, 7493..7630, 7507..7629, 7618..7671, 7620..7673, 7622..7669, 8133..8258, 8134..8259, 8135..8269, 8258..8383, 8258..8383, 8259..8384, 8269..8388, 8426..8500, 8431..8496		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61559	Strand	
Start	8429	End	10653
Name	OJ990319_07.9819.C57.o1.ts	Method	TBLASTX:Soybean
Start	8429	End	10614
GI	none	Score	204
Exons	8429..8710, 8650..8724, 8807..8950, 8809..8949, 9069..9170, 9069..9167, 9107..9169, 10173..10262, 10174..10272, 10356..10451, 10357..10449, 10552..10614		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61559	Strand	
Start	8429	End	10653
Name	OJ990319_07.9819.C57.o1.tm	Method	TBLASTX:Maize
Start	8501	End	9172
GI	none	Score	143
Exons	8501..8623, 8507..8620, 8508..8645, 8610..8714, 8614..8718, 8615..8710, 8623..8721, 8799..8948, 8807..8950, 8809..8949, 9069..9170, 9069..9170, 9070..9171, 9070..9171, 9071..9172		

Seq. No.	29808	Seq. ID	OJ990319_07.9819.C57
Gene No.	61559	Strand	
Start	8429	End	10653
Name	OJ990319_07.9819.C57.o2.tm	Method	TBLASTX:Maize
Start	10173	End	10653
GI	none	Score	180
Exons	10173..10268, 10174..10272, 10175..10279, 10176..10280, 10356..10451, 10357..10449, 10401..10451, 10522..10653, 10528..10644		

Seq. No.	29809	Seq. ID	OJ990319_07.9819.C61
Gene No.	61560	Strand	+
Start	513	End	583
Name	OJ990319_07.9819.C61.o1.gs	Method	GENSCAN
Start	513	End	583
GI	none	Score	.96
Exons	513..583		

Seq. No.	29810	Seq. ID	OJ990319_07.9819.C62
Gene No.	61561	Strand	-
Start	776	End	946
Name	OJ990319_07.9819.C62.o1.gs	Method	GENSCAN
Start	776	End	946
GI	none	Score	.83
Exons	776..847, 926..946		

Seq. No.	29811	Seq. ID	OJ990319_07.9819.C68
Gene No.	61562	Strand	-
Start	191	End	630
Name	OJ990319_07.9819.C68.o1.gs	Method	GENSCAN
Start	191	End	630
GI	none	Score	.74
Exons	191..630		

Seq. No.	29812	Seq. ID	OJ990319_07.9819.C69
Gene No.	61563	Strand	-
Start	243	End	722
Name	OJ990319_07.9819.C69.o1.np	Method	AAT/NAP
Start	243	End	722
GI	4680183	Score	97
Exons	243..330, 699..722		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	29812	Seq. ID	OJ990319_07.9819.C69
Gene No.	61563	Strand	-
Start	243	End	722

Name OJ990319\_07.9819.C69.o1.gs  
 Start 402  
 GI none  
 Exons 402..464

Method GENSCAN  
 End 464  
 Score .57

Seq. No. 29813 Seq. ID OJ990309\_01.9819.C1  
 Gene No. 61564 Strand -  
 Start 1 End 605  
 Name OJ990309\_01.9819.C1.o1.np Method AAT/NAP  
 Start 1 End 605  
 GI 3063473 Score 233  
 Exons 1..97, 190..267, 466..605  
 GI Descrip. (AC003981) F22013.35 [Arabidopsis thaliana]

Seq. No. 29813 Seq. ID OJ990309\_01.9819.C1  
 Gene No. 61564 Strand -  
 Start 1 End 605  
 Name OJ990309\_01.9819.C1.o1.tm Method TBLASTX:Maize  
 Start 54 End 580  
 GI none Score 61  
 Exons 54..98, 55..93, 56..97, 190..261, 193..267, 430..579, 435..551, 437..580

Seq. No. 29813 Seq. ID OJ990309\_01.9819.C1  
 Gene No. 61564 Strand -  
 Start 1 End 605  
 Name OJ990309\_01.9819.C1.o1.gs Method GENSCAN  
 Start 154 End 579  
 GI none Score .59  
 Exons 154..267, 466..579

Seq. No. 29814 Seq. ID OJ990309\_01.9819.C2  
 Gene No. 61565 Strand -  
 Start 1 End 1229  
 Name OJ990309\_01.9819.C2.o1.np Method AAT/NAP  
 Start 1 End 1229  
 GI 3063473 Score 359  
 Exons 1..71, 372..457, 641..808, 894..998, 1083..1229  
 GI Descrip. (AC003981) F22013.35 [Arabidopsis thaliana]

Seq. No. 29814 Seq. ID OJ990309\_01.9819.C2  
 Gene No. 61565 Strand -  
 Start 1 End 1229  
 Name OJ990309\_01.9819.C2.o1.gs Method GENSCAN  
 Start 641 End 808  
 GI none Score .84  
 Exons 641..808

Seq. No. 29815 Seq. ID OJ990309\_01.9819.C3  
 Gene No. 61566 Strand +  
 Start 1 End 717  
 Name OJ990309\_01.9819.C3.o1.np Method AAT/NAP  
 Start 1 End 717  
 GI 5091513 Score 795  
 Exons 1..717  
 GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No.	29815	Seq. ID	OJ990309_01.9819.C3
Gene No.	61566	Strand	+
Start	1	End	717
Name	OJ990309_01.9819.C3.o1.gs	Method	GENSCAN
Start	86	End	596
GI	none	Score	.72
Exons	86..596		

Seq. No.	29816	Seq. ID	OJ990309_01.9819.C4
Gene No.	61567	Strand	-
Start	1	End	531
Name	OJ990309_01.9819.C4.o1.np	Method	AAT/NAP
Start	1	End	531
GI	2586082	Score	532
Exons	1..531		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	29816	Seq. ID	OJ990309_01.9819.C4
Gene No.	61567	Strand	-
Start	1	End	531
Name	OJ990309_01.9819.C4.o1.tm	Method	TBLASTX:Maize
Start	125	End	442
GI	none	Score	93
Exons	125..313, 350..442		

Seq. No.	29816	Seq. ID	OJ990309_01.9819.C4
Gene No.	61567	Strand	-
Start	1	End	531
Name	OJ990309_01.9819.C4.o1.gs	Method	GENSCAN
Start	293	End	506
GI	none	Score	.95
Exons	293..506		

Seq. No.	29817	Seq. ID	OJ990309_01.9819.C5
Gene No.	61568	Strand	+
Start	1	End	560
Name	OJ990309_01.9819.C5.o1.np	Method	AAT/NAP
Start	1	End	560
GI	3341680	Score	77
Exons	1..117, 357..560		
GI Descrip.	(AC003672) unknown protein [Arabidopsis thaliana]		

Seq. No.	29817	Seq. ID	OJ990309_01.9819.C5
Gene No.	61568	Strand	+
Start	1	End	560
Name	OJ990309_01.9819.C5.o1.gs	Method	GENSCAN
Start	138	End	554
GI	none	Score	.73
Exons	138..554		

Seq. No.	29818	Seq. ID	OJ990309_01.9819.C6
Gene No.	61569	Strand	
Start	311	End	452
Name	OJ990309_01.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	311	End	452
GI	none	Score	123
Exons	311..451, 311..451, 312..452		

Seq. No.	29819	Seq. ID	OJ990309_01.9819.C7
Gene No.	61570	Strand	-
Start	251	End	563
Name	OJ990309_01.9819.C7.o1.gs	Method	GENSCAN
Start	251	End	563
GI	none	Score	.64
Exons	251..398, 418..563		

Seq. No.	29820	Seq. ID	OJ990309_01.9819.C8
Gene No.	61571	Strand	+
Start	283	End	406
Name	OJ990309_01.9819.C8.o1.gp	Method	AAT/GAP
Start	283	End	406
GI	2310574	Score	193
Exons	283..406		
GI Descrip.	3834314 8.0e-36 (AC005679) Similar to gene pi010 glycosyltransferase gi_2257490 from S. pombe clone 1750 gb_AB004534. ESTs gb_T46079 and gb_AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	29820	Seq. ID	OJ990309_01.9819.C8
Gene No.	61572	Strand	-
Start	1	End	447
Name	OJ990309_01.9819.C8.o1.np	Method	AAT/NAP
Start	1	End	447
GI	3834314	Score	140
Exons	1..30, 283..447		
GI Descrip.	(AC005679) Similar to gene pi010 glycosyltransferase gi 2257490 from S. pombe clone 1750 gb AB004534. ESTs gb T46079 and gb AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	29820	Seq. ID	OJ990309_01.9819.C8
Gene No.	61572	Strand	-
Start	1	End	447
Name	OJ990309_01.9819.C8.o1.tc	Method	TBLASTX:Cress
Start	281	End	423
GI	none	Score	108
Exons	281..403, 283..423, 283..405		

Seq. No.	29820	Seq. ID	OJ990309_01.9819.C8
Gene No.	61572	Strand	-
Start	1	End	447
Name	OJ990309_01.9819.C8.o1.gs	Method	GENSCAN
Start	285	End	401
GI	none	Score	.44
Exons	285..401		

Seq. No.	29821	Seq. ID	OJ990309_01.9819.C9
Gene No.	61573	Strand	+
Start	1	End	1300
Name	OJ990309_01.9819.C9.o1.np	Method	AAT/NAP
Start	1	End	1300
GI	2342691	Score	132
Exons	1..211, 448..621, 1169..1300		
GI Descrip.	(AC000106) F7G19.26 [Arabidopsis thaliana]		



Seq. No.	29821	Seq. ID	OJ990309_01.9819.C9
Gene No.	61573	Strand	+
Start	1	End	1300
Name	OJ990309_01.9819.C9.o1.gs	Method	GENSCAN
Start	100	End	600
GI	none	Score	.93
Exons	100..211, 448..600		
Seq. No.	29822	Seq. ID	OJ990309_01.9819.C12
Gene No.	61574	Strand	+
Start	615	End	714
Name	OJ990309_01.9819.C12.o1.gs	Method	GENSCAN
Start	615	End	714
GI	none	Score	.48
Exons	615..714		
Seq. No.	29822	Seq. ID	OJ990309_01.9819.C12
Gene No.	61575	Strand	-
Start	1	End	1272
Name	OJ990309_01.9819.C12.o1.np	Method	AAT/NAP
Start	1	End	1272
GI	2586082	Score	587
Exons	1..608, 1206..1272		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		
Seq. No.	29823	Seq. ID	OJ990309_01.9819.C13
Gene No.	61576	Strand	+
Start	387	End	467
Name	OJ990309_01.9819.C13.o1.gs	Method	GENSCAN
Start	387	End	467
GI	none	Score	.52
Exons	387..467		
Seq. No.	29824	Seq. ID	OJ990309_01.9819.C14
Gene No.	61577	Strand	+
Start	166	End	1316
Name	OJ990309_01.9819.C14.o1.gs	Method	GENSCAN
Start	166	End	1316
GI	none	Score	.65
Exons	166..239, 919..1011, 1071..1316		
Seq. No.	29824	Seq. ID	OJ990309_01.9819.C14
Gene No.	61578	Strand	+
Start	1277	End	1640
Name	OJ990309_01.9819.C14.o1.gp	Method	AAT/GAP
Start	1277	End	1640
GI	46921_1.R1084	Score	701
Exons	1277..1640		
GI Descrip.	'3834314 8.0e-36 (AC005679) Similar to gene pi010 glycosyltransferase gi_2257490 from S. pombe clone 1750 gb_AB004534. ESTs gb_T46079 and gb_AA394466 come from this gene. [Arabidopsis thaliana]'		
Seq. No.	29824	Seq. ID	OJ990309_01.9819.C14
Gene No.	61579	Strand	-
Start	1652	End	1954
Name	OJ990309_01.9819.C14.o1.tm	Method	TBLASTX:Maize

Start	1652	End	1933
GI	none	Score	208
Exons	1652..1774, 1653..1874, 1654..1878, 1656..1835, 1702..1863, 1877..1933, 1878..1931		

Seq. No.	29824	Seq. ID	OJ990309_01.9819.C14
Gene No.	61579	Strand	-
Start	1652	End	1954
Name	OJ990309_01.9819.C14.o2.gs	Method	GENSCAN
Start	1652	End	1954
GI	none	Score	.95
Exons	1652..1954		

Seq. No.	29825	Seq. ID	OJ990309_01.9819.C15
Gene No.	61580	Strand	+
Start	1	End	629
Name	OJ990309_01.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	629
GI	2316016	Score	438
Exons	1..629		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	29825	Seq. ID	OJ990309_01.9819.C15
Gene No.	61580	Strand	+
Start	1	End	629
Name	OJ990309_01.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	140	End	628
GI	none	Score	426
Exons	140..628, 173..442, 476..622		

Seq. No.	29825	Seq. ID	OJ990309_01.9819.C15
Gene No.	61580	Strand	+
Start	1	End	629
Name	OJ990309_01.9819.C15.o1.gs	Method	GENSCAN
Start	168	End	369
GI	none	Score	.82
Exons	168..369		

Seq. No.	29825	Seq. ID	OJ990309_01.9819.C15
Gene No.	61580	Strand	+
Start	1	End	629
Name	OJ990309_01.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	239	End	621
GI	none	Score	228
Exons	239..616, 421..621		

Seq. No.	29826	Seq. ID	OJ990309_01.9819.C16
Gene No.	61581	Strand	-
Start	175	End	568
Name	OJ990309_01.9819.C16.o1.gs	Method	GENSCAN
Start	175	End	568
GI	none	Score	.43
Exons	175..299, 358..568		

Seq. No.	29827	Seq. ID	OJ990309_01.9819.C19
Gene No.	61582	Strand	-
Start	1	End	636

Name	OJ990309_01.9819.C19.o1.np	Method	AAT/NAP
Start	1	End	636
GI	5902445	Score	932
Exons	1..636		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	29827	Seq. ID	OJ990309_01.9819.C19
Gene No.	61582	Strand	-
Start	1	End	636
Name	OJ990309_01.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	73	End	276
GI	none	Score	80
Exons	73..144, 74..145, 124..276		
Seq. No.	29827	Seq. ID	OJ990309_01.9819.C19
Gene No.	61582	Strand	-
Start	1	End	636
Name	OJ990309_01.9819.C19.o1.tw	Method	TBLASTX:Wheat
Start	73	End	618
GI	none	Score	87
Exons	73..141, 127..285, 340..618, 356..463		
Seq. No.	29827	Seq. ID	OJ990309_01.9819.C19
Gene No.	61582	Strand	-
Start	1	End	636
Name	OJ990309_01.9819.C19.o1.gs	Method	GENSCAN
Start	75	End	528
GI	none	Score	.89
Exons	75..528		
Seq. No.	29828	Seq. ID	OJ990309_01.9819.C20
Gene No.	61583	Strand	-
Start	1	End	2325
Name	OJ990309_01.9819.C20.o1.np	Method	AAT/NAP
Start	1	End	2325
GI	5902445	Score	3027
Exons	1..1995, 2303..2325		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	29828	Seq. ID	OJ990309_01.9819.C20
Gene No.	61583	Strand	-
Start	1	End	2325
Name	OJ990309_01.9819.C20.o1.tm	Method	TBLASTX:Maize
Start	67	End	402
GI	none	Score	276
Exons	67..381, 78..401, 91..402		
Seq. No.	29828	Seq. ID	OJ990309_01.9819.C20
Gene No.	61583	Strand	-
Start	1	End	2325
Name	OJ990309_01.9819.C20.o3.tw	Method	TBLASTX:Wheat
Start	77	End	396
GI	none	Score	85
Exons	77..199, 84..200, 84..395, 85..396		
Seq. No.	29828	Seq. ID	OJ990309_01.9819.C20
Gene No.	61583	Strand	-

Start 1  
 Name OJ990309\_01.9819.C20.o5.tw  
 Start 399  
 GI none  
 Exons 399..539, 564..698

End 2325  
 Method TBLASTX:Wheat  
 End 698  
 Score 130

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o3.tm  
 Start 630  
 GI none  
 Exons 630..884

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Maize  
 End 884  
 Score 193

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o2.tw  
 Start 714  
 GI none  
 Exons 714..1136, 724..1128

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Wheat  
 End 1136  
 Score 256

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o2.ts  
 Start 757  
 GI none  
 Exons 757..1137, 759..1001, 1041..1145

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Soybean  
 End 1145  
 Score 159

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o4.tw  
 Start 1140  
 GI none  
 Exons 1140..1421, 1152..1412, 1345..1422

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Wheat  
 End 1422  
 Score 88

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o2.tm  
 Start 1260  
 GI none  
 Exons 1260..1286, 1284..1427, 1297..1428, 1449..1703, 1450..1704

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Maize  
 End 1704  
 Score 89

Seq. No. 29828  
 Gene No. 61583  
 Start 1  
 Name OJ990309\_01.9819.C20.o1.ts  
 Start 1371  
 GI none  
 Exons 1371..1802, 1405..1575, 1612..1755

Seq. ID OJ990309\_01.9819.C20  
 Strand -  
 End 2325  
 Method TBLASTX:Soybean  
 End 1802  
 Score 47

Seq. No. 29828  
 Gene No. 61583

Seq. ID OJ990309\_01.9819.C20  
 Strand -

Start 1  
 Name OJ990309\_01.9819.C20.o1.tw  
 Start 1426  
 GI none  
 Exons 1426..1785, 1431..1784

End 2325  
 Method TBLASTX:Wheat  
 End 1785  
 Score 273

Seq. No. 29829  
 Gene No. 61584  
 Start 86  
 Name OJ990309\_01.9819.C21.o1.gs  
 Start 86  
 GI none  
 Exons 86..662

Seq. ID OJ990309\_01.9819.C21  
 Strand -  
 End 909  
 Method GENSCAN  
 End 662  
 Score .99

Seq. No. 29829  
 Gene No. 61584  
 Start 86  
 Name OJ990309\_01.9819.C21.o1.np  
 Start 89  
 GI 5902444  
 Exons 89..909  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ990309\_01.9819.C21  
 Strand -  
 End 909  
 Method AAT/NAP  
 End 909  
 Score 941

Seq. No. 29829  
 Gene No. 61584  
 Start 86  
 Name OJ990309\_01.9819.C21.o1.tm  
 Start 268  
 GI none  
 Exons 268..432, 299..445, 300..446

Seq. ID OJ990309\_01.9819.C21  
 Strand -  
 End 909  
 Method TBLASTX:Maize  
 End 446  
 Score 114

Seq. No. 29829  
 Gene No. 61584  
 Start 86  
 Name OJ990309\_01.9819.C21.o1.tw  
 Start 320  
 GI none  
 Exons 320..664, 339..659

Seq. ID OJ990309\_01.9819.C21  
 Strand -  
 End 909  
 Method TBLASTX:Wheat  
 End 664  
 Score 190

Seq. No. 29830  
 Gene No. 61585  
 Start 180  
 Name OJ990309\_01.9819.C22.o1.gs  
 Start 180  
 GI none  
 Exons 180..303, 349..467

Seq. ID OJ990309\_01.9819.C22  
 Strand +  
 End 467  
 Method GENSCAN  
 End 467  
 Score .74

Seq. No. 29831  
 Gene No. 61586  
 Start 993  
 Name OJ990309\_01.9819.C26.o1.ts  
 Start 966  
 GI none  
 Exons 966..1100, 1170..1283, 1171..1260, 1173..1265

Seq. ID OJ990309\_01.9819.C26  
 Strand -  
 End 1321  
 Method TBLASTX:Soybean  
 End 1283  
 Score 92

Seq. No. 29831  
 Gene No. 61586

Seq. ID OJ990309\_01.9819.C26  
 Strand -

Start	993	End	1321
Name	OJ990309_01.9819.C26.o1.np	Method	AAT/NAP
Start	993	End	1321
GI	2316016	Score	164
Exons	993..1099, 1175..1321		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		
Seq. No.	29831	Seq. ID	OJ990309_01.9819.C26
Gene No.	61586	Strand	-
Start	993	End	1321
Name	OJ990309_01.9819.C26.o1.tc	Method	TBLASTX:Cress
Start	999	End	1283
GI	none	Score	115
Exons	999..1100, 1135..1260, 1170..1283, 1173..1277		
Seq. No.	29831	Seq. ID	OJ990309_01.9819.C26
Gene No.	61586	Strand	-
Start	993	End	1321
Name	OJ990309_01.9819.C26.o1.tm	Method	TBLASTX:Maize
Start	1008	End	1283
GI	none	Score	118
Exons	1008..1100, 1129..1281, 1170..1283, 1172..1282		
Seq. No.	29832	Seq. ID	OJ990309_01.9819.C27
Gene No.	61587	Strand	+
Start	303	End	699
Name	OJ990309_01.9819.C27.o1.gs	Method	GENSCAN
Start	303	End	699
GI	none	Score	.44
Exons	303..547, 638..699		
Seq. No.	29832	Seq. ID	OJ990309_01.9819.C27
Gene No.	61588	Strand	-
Start	1352	End	2694
Name	OJ990309_01.9819.C27.o2.gs	Method	GENSCAN
Start	1352	End	2694
GI	none	Score	.49
Exons	1352..1526, 2476..2694		
Seq. No.	29833	Seq. ID	OJ990309_01.9819.C28
Gene No.	61589	Strand	+
Start	367	End	1416
Name	OJ990309_01.9819.C28.o1.gs	Method	GENSCAN
Start	367	End	1416
GI	none	Score	.46
Exons	367..437, 1266..1416		
Seq. No.	29834	Seq. ID	OJ990309_01.9819.C29
Gene No.	61590	Strand	+
Start	776	End	926
Name	OJ990309_01.9819.C29.o1.gs	Method	GENSCAN
Start	776	End	926
GI	none	Score	.67
Exons	776..926		
Seq. No.	29835	Seq. ID	OJ990309_01.9819.C30
Gene No.	61591	Strand	-

Start 255  
 Name OJ990309\_01.9819.C30.o1.gs  
 Start 255  
 GI none  
 Exons 255..461

End 461  
 Method GENSCAN  
 End 461  
 Score .87

Seq. No. 29836  
 Gene No. 61592  
 Start 126  
 Name OJ990309\_01.9819.C31.o1.gs  
 Start 126  
 GI none  
 Exons 126..206

Seq. ID OJ990309\_01.9819.C31  
 Strand -  
 End 206  
 Method GENSCAN  
 End 206  
 Score .76

Seq. No. 29837  
 Gene No. 61593  
 Start 1  
 Name OJ990309\_01.9819.C32.o1.np  
 Start 1  
 GI 2316016  
 Exons 1..29, 182..619, 712..876, 1060..1141  
 GI Descrip. (U92650) MRP-like ABC transporter [Arabidopsis thaliana]

Seq. ID OJ990309\_01.9819.C32  
 Strand +  
 End 1141  
 Method AAT/NAP  
 End 1141  
 Score 434

Seq. No. 29837  
 Gene No. 61593  
 Start 1  
 Name OJ990309\_01.9819.C32.o1.gs  
 Start 79  
 GI none  
 Exons 79..361, 712..876

Seq. ID OJ990309\_01.9819.C32  
 Strand +  
 End 1141  
 Method GENSCAN  
 End 876  
 Score .5

Seq. No. 29837  
 Gene No. 61593  
 Start 1  
 Name OJ990309\_01.9819.C32.o1.tc  
 Start 173  
 GI none  
 Exons 173..631, 238..630, 709..876, 711..881

Seq. ID OJ990309\_01.9819.C32  
 Strand +  
 End 1141  
 Method TBLASTX:Cress  
 End 881  
 Score 385

Seq. No. 29837  
 Gene No. 61593  
 Start 1  
 Name OJ990309\_01.9819.C32.o1.ts  
 Start 215  
 GI none  
 Exons 215..631, 238..630, 700..876, 714..866

Seq. ID OJ990309\_01.9819.C32  
 Strand +  
 End 1141  
 Method TBLASTX:Soybean  
 End 876  
 Score 360

Seq. No. 29837  
 Gene No. 61593  
 Start 1  
 Name OJ990309\_01.9819.C32.o1.tm  
 Start 218  
 GI none  
 Exons 218..631, 238..630

Seq. ID OJ990309\_01.9819.C32  
 Strand +  
 End 1141  
 Method TBLASTX:Maize  
 End 631  
 Score 387

Seq. No. 29838  
 Gene No. 61594

Seq. ID OJ990309\_01.9819.C33  
 Strand -

Start	824	End	1848
Name	OJ990309_01.9819.C33.o1.gs	Method	GENSCAN
Start	824	End	1848
GI	none	Score	.45
Exons	824..886, 1294..1848		
Seq. No.	29839	Seq. ID	OJ990309_01.9819.C35
Gene No.	61595	Strand	+
Start	49	End	162
Name	OJ990309_01.9819.C35.o1.gs	Method	GENSCAN
Start	49	End	162
GI	none	Score	.95
Exons	49..162		
Seq. No.	29840	Seq. ID	OJ990309_01.9819.C36
Gene No.	61596	Strand	-
Start	1	End	577
Name	OJ990309_01.9819.C36.o1.np	Method	AAT/NAP
Start	1	End	577
GI	6006359	Score	61
Exons	1..22, 178..283, 540..577		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		
Seq. No.	29841	Seq. ID	OJ990309_01.9819.C37
Gene No.	61597	Strand	+
Start	489	End	1610
Name	OJ990309_01.9819.C37.o1.tm	Method	TBLASTX:Maize
Start	486	End	743
GI	none	Score	108
Exons	486..614, 591..743		
Seq. No.	29841	Seq. ID	OJ990309_01.9819.C37
Gene No.	61597	Strand	+
Start	489	End	1610
Name	OJ990309_01.9819.C37.o1.np	Method	AAT/NAP
Start	489	End	1610
GI	2586082	Score	1585
Exons	489..1610		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		
Seq. No.	29841	Seq. ID	OJ990309_01.9819.C37
Gene No.	61597	Strand	+
Start	489	End	1610
Name	OJ990309_01.9819.C37.o1.tw	Method	TBLASTX:Wheat
Start	582	End	952
GI	none	Score	409
Exons	582..950, 610..822, 615..938, 707..952		
Seq. No.	29842	Seq. ID	OJ990309_01.9819.C38
Gene No.	61598	Strand	-
Start	516	End	868
Name	OJ990309_01.9819.C38.o1.gs	Method	GENSCAN
Start	516	End	868
GI	none	Score	.48
Exons	516..629, 860..868		
Seq. No.	29843	Seq. ID	OJ990309_01.9819.C39



Gene No.	61599	Strand	+
Start	1	End	342
Name	OJ990309_01.9819.C39.o1.gs	Method	GENSCAN
Start	1	End	342
GI	none	Score	.59
Exons	1..342		
Seq. No.	29843	Seq. ID	OJ990309_01.9819.C39
Gene No.	61599	Strand	+
Start	1	End	342
Name	OJ990309_01.9819.C39.o1.np	Method	AAT/NAP
Start	1	End	339
GI	5902444	Score	486
Exons	1..339		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	29844	Seq. ID	OJ990309_01.9819.C40
Gene No.	61600	Strand	+
Start	1	End	969
Name	OJ990309_01.9819.C40.o1.np	Method	AAT/NAP
Start	1	End	969
GI	5091513	Score	1163
Exons	1..969		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		
Seq. No.	29844	Seq. ID	OJ990309_01.9819.C40
Gene No.	61600	Strand	+
Start	1	End	969
Name	OJ990309_01.9819.C40.o1.gs	Method	GENSCAN
Start	88	End	934
GI	none	Score	.68
Exons	88..327, 507..934		
Seq. No.	29845	Seq. ID	OJ990309_01.9819.C41
Gene No.	61601	Strand	-
Start	292	End	1093
Name	OJ990309_01.9819.C41.o1.np	Method	AAT/NAP
Start	292	End	1093
GI	2586082	Score	1026
Exons	292..1093		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		
Seq. No.	29845	Seq. ID	OJ990309_01.9819.C41
Gene No.	61601	Strand	-
Start	292	End	1093
Name	OJ990309_01.9819.C41.o1.tw	Method	TBLASTX:Wheat
Start	439	End	777
GI	none	Score	90
Exons	439..777, 576..713, 586..714		
Seq. No.	29845	Seq. ID	OJ990309_01.9819.C41
Gene No.	61601	Strand	-
Start	292	End	1093
Name	OJ990309_01.9819.C41.o1.tm	Method	TBLASTX:Maize
Start	592	End	1017
GI	none	Score	62
Exons	592..888, 662..823, 925..1017		

Seq. No.	29846	Seq. ID	OJ990309_01.9819.C42
Gene No.	61602	Strand	+
Start	510	End	1076
Name	OJ990309_01.9819.C42.o1.gs	Method	GENSCAN
Start	510	End	1076
GI	none	Score	.64
Exons	510..1076		
Seq. No.	29846	Seq. ID	OJ990309_01.9819.C42
Gene No.	61602	Strand	+
Start	510	End	1076
Name	OJ990309_01.9819.C42.o1.np	Method	AAT/NAP
Start	575	End	995
GI	2879805	Score	64
Exons	575..995		
GI Descrip.	(AL021813) hypothetical protein; extensin-like; with SH3 Src homology domain [Schizosaccharomyces pombe]		
Seq. No.	29847	Seq. ID	OJ990309_01.9819.C43
Gene No.	61603	Strand	+
Start	339	End	516
Name	OJ990309_01.9819.C43.o1.gs	Method	GENSCAN
Start	339	End	516
GI	none	Score	.65
Exons	339..516		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223
Name	OJ990309_01.9819.C44.o1.np	Method	AAT/NAP
Start	271	End	1223
GI	3142303	Score	654
Exons	271..1030, 1153..1223		
GI Descrip.	(AC002411) Strong similarity to MRP-like ABC transporter gb U92650 from A. thaliana and canalicular multi-drug resistance protein gb L49379 from Rattus norvegicus. [Arabidopsis thaliana]		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223
Name	OJ990309_01.9819.C44.o1.tc	Method	TBLASTX:Cress
Start	335	End	1030
GI	none	Score	647
Exons	335..562, 349..882, 350..1030, 683..1027		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223
Name	OJ990309_01.9819.C44.o2.tm	Method	TBLASTX:Maize
Start	374	End	739
GI	none	Score	82
Exons	374..484, 524..739, 580..738		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223

Name	OJ990309_01.9819.C44.o1.gs	Method	GENSCAN
Start	423	End	1030
GI	none	Score	.91
Exons	423..1030		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223
Name	OJ990309_01.9819.C44.o1.ts	Method	TBLASTX:Soybean
Start	628	End	1030
GI	none	Score	203
Exons	628..861, 629..865, 866..1030, 869..1015		
Seq. No.	29848	Seq. ID	OJ990309_01.9819.C44
Gene No.	61604	Strand	+
Start	271	End	1223
Name	OJ990309_01.9819.C44.o1.tm	Method	TBLASTX:Maize
Start	779	End	1038
GI	none	Score	291
Exons	779..1030, 779..1030, 849..1037, 889..1038, 922..1032		
Seq. No.	29849	Seq. ID	OJ990309_01.9819.C47
Gene No.	61605	Strand	+
Start	43	End	1011
Name	OJ990309_01.9819.C47.o1.np	Method	AAT/NAP
Start	43	End	1011
GI	6907106	Score	858
Exons	43..288, 375..791, 828..1011		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29849	Seq. ID	OJ990309_01.9819.C47
Gene No.	61605	Strand	+
Start	43	End	1011
Name	OJ990309_01.9819.C47.o1.tm	Method	TBLASTX:Maize
Start	602	End	914
GI	none	Score	110
Exons	602..706, 604..786, 630..713, 639..755, 640..765, 706..771, 706..771, 729..776, 784..912, 785..913, 797..913, 803..910, 855..914		
Seq. No.	29850	Seq. ID	OJ990309_01.9819.C48
Gene No.	61606	Strand	+
Start	1	End	465
Name	OJ990309_01.9819.C48.o1.np	Method	AAT/NAP
Start	1	End	433
GI	2342691	Score	72
Exons	1..233, 331..433		
GI Descrip.	(AC000106) F7G19.26 [Arabidopsis thaliana]		
Seq. No.	29850	Seq. ID	OJ990309_01.9819.C48
Gene No.	61606	Strand	+
Start	1	End	465
Name	OJ990309_01.9819.C48.o1.gs	Method	GENSCAN
Start	24	End	465
GI	none	Score	.74
Exons	24..233, 331..465		

Seq. No.	29851	Seq. ID	OJ990309_01.9819.C49
Gene No.	61607	Strand	+
Start	159	End	317
Name	OJ990309_01.9819.C49.o1.gs	Method	GENSCAN
Start	159	End	317
GI	none	Score	.78
Exons	159..317		

Seq. No.	29852	Seq. ID	OJ990309_01.9819.C50
Gene No.	61608	Strand	+
Start	239	End	308
Name	OJ990309_01.9819.C50.o1.gs	Method	GENSCAN
Start	239	End	308
GI	none	Score	.66
Exons	239..308		

Seq. No.	29853	Seq. ID	OJ990309_01.9819.C51
Gene No.	61609	Strand	-
Start	1	End	966
Name	OJ990309_01.9819.C51.o1.np	Method	AAT/NAP
Start	1	End	749
GI	2316016	Score	76
Exons	1..357, 650..749		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	29853	Seq. ID	OJ990309_01.9819.C51
Gene No.	61609	Strand	-
Start	1	End	966
Name	OJ990309_01.9819.C51.o1.gp	Method	AAT/GAP
Start	636	End	966
GI	LIB3431-060-P1-N1-C11	Score	178
Exons	636..749, 940..966		
GI Descrip.	'6041757/gb AC011806.1 AC011806 1.0e-38 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	29854	Seq. ID	OJ990309_01.9819.C52
Gene No.	61610	Strand	+
Start	622	End	1489
Name	OJ990309_01.9819.C52.o1.gs	Method	GENSCAN
Start	622	End	1489
GI	none	Score	.51
Exons	622..782, 1035..1159, 1434..1489		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256
Name	OJ990309_01.9819.C53.o1.np	Method	AAT/NAP
Start	1	End	1256
GI	2316016	Score	322
Exons	1..102, 390..476, 763..1036, 1144..1256		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256

Name	OJ990309_01.9819.C53.o1.gp	Method	AAT/GAP
Start	376	End	655
GI	LIB3431-060-P1-N1-C11	Score	522
Exons	376..655		
GI Descrip.	'6041757/gb AC011806.1 AC011806 1.0e-38 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256
Name	OJ990309_01.9819.C53.o1.tc	Method	TBLASTX:Cress
Start	385	End	1017
GI	none	Score	70
Exons	385..489, 387..488, 755..874, 763..1017, 790..990		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256
Name	OJ990309_01.9819.C53.o1.gs	Method	GENSCAN
Start	390	End	979
GI	none	Score	.97
Exons	390..476, 763..979		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256
Name	OJ990309_01.9819.C53.o1.tm	Method	TBLASTX:Maize
Start	755	End	1011
GI	none	Score	91
Exons	755..886, 761..871, 763..1011, 781..987		

Seq. No.	29855	Seq. ID	OJ990309_01.9819.C53
Gene No.	61611	Strand	-
Start	1	End	1256
Name	OJ990309_01.9819.C53.o1.ts	Method	TBLASTX:Soybean
Start	778	End	981
GI	none	Score	148
Exons	778..978, 781..981		

Seq. No.	29856	Seq. ID	OJ990309_01.9819.C56
Gene No.	61612	Strand	-
Start	70	End	1387
Name	OJ990309_01.9819.C56.o1.gs	Method	GENSCAN
Start	70	End	1387
GI	none	Score	.82
Exons	70..574, 594..785, 1316..1387		

Seq. No.	29856	Seq. ID	OJ990309_01.9819.C56
Gene No.	61612	Strand	-
Start	70	End	1387
Name	OJ990309_01.9819.C56.o1.gp	Method	AAT/GAP
Start	287	End	676
GI	4880249	Score	643
Exons	287..676		

Seq. No.	29857	Seq. ID	OJ990309_01.9819.C57
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Gene No. 61613  
 Start 1835  
 Name OJ990309\_01.9819.C57.o1.gs  
 Start 1835  
 GI none  
 Exons 1835..1932, 1977..2026

Strand -  
 End 2026  
 Method GENSCAN  
 End 2026  
 Score .79

Seq. No. 29858  
 Gene No. 61614  
 Start 97  
 Name OJ990309\_01.9819.C58.o1.gs  
 Start 97  
 GI none  
 Exons 97..326, 1610..1748

Seq. ID OJ990309\_01.9819.C58  
 Strand -  
 End 1748  
 Method GENSCAN  
 End 1748  
 Score .43

Seq. No. 29859  
 Gene No. 61615  
 Start 119  
 Name OJ990309\_01.9819.C59.o1.gs  
 Start 119  
 GI none  
 Exons 119..193, 679..851, 976..1091

Seq. ID OJ990309\_01.9819.C59  
 Strand +  
 End 1091  
 Method GENSCAN  
 End 1091  
 Score .62

Seq. No. 29859  
 Gene No. 61616  
 Start 869  
 Name OJ990309\_01.9819.C59.o1.np  
 Start 869  
 GI 5091519  
 Exons 869..1247  
 GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. ID OJ990309\_01.9819.C59  
 Strand -  
 End 1247  
 Method AAT/NAP  
 End 1247  
 Score 62

Seq. No. 29860  
 Gene No. 61617  
 Start 1  
 Name OJ990309\_01.9819.C60.o1.np  
 Start 1  
 GI 3142303  
 Exons 1..440, 535..834  
 GI Descrip. (AC002411) Strong similarity to MRP-like ABC transporter gb|U92650 from A. thaliana and canalicular multi-drug resistance protein gb|L49379 from Rattus norvegicus. [Arabidopsis thaliana]

Seq. ID OJ990309\_01.9819.C60  
 Strand -  
 End 1073  
 Method AAT/NAP  
 End 834  
 Score 278

Seq. No. 29860  
 Gene No. 61617  
 Start 1  
 Name OJ990309\_01.9819.C60.o1.ts  
 Start 220  
 GI none  
 Exons 220..384, 223..453, 230..439, 526..660, 533..700, 537..698

Seq. ID OJ990309\_01.9819.C60  
 Strand -  
 End 1073  
 Method TBLASTX:Soybean  
 End 700  
 Score 101

Seq. No. 29860  
 Gene No. 61617  
 Start 1  
 Name OJ990309\_01.9819.C60.o1.gs  
 Start 226  
 GI none

Seq. ID OJ990309\_01.9819.C60  
 Strand -  
 End 1073  
 Method GENSCAN  
 End 1073  
 Score .49

Exons 226..440, 1028..1073

Seq. No.	29860	Seq. ID	OJ990309_01.9819.C60
Gene No.	61617	Strand	-
Start	1	End	1073
Name	OJ990309_01.9819.C60.o1.tc	Method	TBLASTX:Cress
Start	238	End	709
GI	none	Score	90
Exons	238..450, 245..439, 533..709, 537..701		

Seq. No.	29860	Seq. ID	OJ990309_01.9819.C60
Gene No.	61617	Strand	-
Start	1	End	1073
Name	OJ990309_01.9819.C60.o1.tm	Method	TBLASTX:Maize
Start	307	End	689
GI	none	Score	195
Exons	307..450, 308..439, 523..678, 533..688, 537..689		

Seq. No.	29861	Seq. ID	OJ990309_01.9819.C61
Gene No.	61618	Strand	+
Start	1	End	1078
Name	OJ990309_01.9819.C61.o1.np	Method	AAT/NAP
Start	1	End	1078
GI	2316016	Score	376
Exons	1..730, 893..1078		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	29861	Seq. ID	OJ990309_01.9819.C61
Gene No.	61618	Strand	+
Start	1	End	1078
Name	OJ990309_01.9819.C61.o1.gs	Method	GENSCAN
Start	122	End	730
GI	none	Score	.71
Exons	122..730		

Seq. No.	29861	Seq. ID	OJ990309_01.9819.C61
Gene No.	61619	Strand	-
Start	404	End	1012
Name	OJ990309_01.9819.C61.o1.ts	Method	TBLASTX:Soybean
Start	297	End	1012
GI	none	Score	142
Exons	297..365, 341..538, 377..496, 542..736, 577..732, 896..1012		

Seq. No.	29861	Seq. ID	OJ990309_01.9819.C61
Gene No.	61619	Strand	-
Start	404	End	1012
Name	OJ990309_01.9819.C61.o1.tm	Method	TBLASTX:Maize
Start	320	End	736
GI	none	Score	154
Exons	320..559, 554..736, 643..732		

Seq. No.	29861	Seq. ID	OJ990309_01.9819.C61
Gene No.	61619	Strand	-
Start	404	End	1012
Name	OJ990309_01.9819.C61.o1.tc	Method	TBLASTX:Cress
Start	341	End	1012
GI	none	Score	163

Exons 341..505, 350..556, 542..736, 646..729, 893..1012

Seq. No. 29861 Seq. ID OJ990309\_01.9819.C61  
Gene No. 61619 Strand -  
Start 404 End 1012  
Name OJ990309\_01.9819.C61.o1.gp Method AAT/GAP  
Start 404 End 605  
GI LIB3431-060-P1-N1-C11 Score 387  
Exons 404..605  
GI Descrip. '6041757/gb|AC011806.1|AC011806 1.0e-38 Genomic Sequence For  
Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence,  
complete sequence'

Seq. No. 29862 Seq. ID OJ990309\_01.9819.C62  
Gene No. 61620 Strand +  
Start 253 End 546  
Name OJ990309\_01.9819.C62.o1.gp Method AAT/GAP  
Start 253 End 546  
GI LIB3431-060-P1-K1-C11 Score 483  
Exons 253..546  
GI Descrip. '2980641/emb|CAA72120| 2.0e-12 (Y11250) multi resistance protein  
[Arabidopsis thaliana]'

Seq. No. 29862 Seq. ID OJ990309\_01.9819.C62  
Gene No. 61621 Strand +  
Start 457 End 606  
Name OJ990309\_01.9819.C62.o1.np Method AAT/NAP  
Start 457 End 606  
GI 5824788 Score 81  
Exons 457..606  
GI Descrip. (AL032637) similar to ABC transporter transmembrane region. ;  
ABC transporters; cDNA EST yk333h9.3 comes from this gene; cDNA  
EST EMBL:D71187 comes from this gene; cDNA EST EMBL:D73808 comes  
from this gene; cDNA EST yk575e4.3...

Seq. No. 29863 Seq. ID OJ990309\_01.9819.C63  
Gene No. 61622 Strand +  
Start 471 End 1224  
Name OJ990309\_01.9819.C63.o1.gs Method GENSCAN  
Start 471 End 1030  
GI none Score .97  
Exons 471..500, 601..664, 791..1030

Seq. No. 29863 Seq. ID OJ990309\_01.9819.C63  
Gene No. 61622 Strand +  
Start 471 End 1224  
Name OJ990309\_01.9819.C63.o1.np Method AAT/NAP  
Start 605 End 1224  
GI 2316016 Score 357  
Exons 605..664, 791..1034, 1122..1224  
GI Descrip. (U92650) MRP-like ABC transporter [Arabidopsis thaliana]

Seq. No. 29863 Seq. ID OJ990309\_01.9819.C63  
Gene No. 61622 Strand +  
Start 471 End 1224  
Name OJ990309\_01.9819.C63.o1.tc Method TBLASTX:Cress  
Start 721 End 1209



GI	none	Score	72
Exons	721..915, 732..872, 787..1032, 799..1017, 954..1034, 961..1035, 1117..1209		

Seq. No.	29863	Seq. ID	OJ990309_01.9819.C63
Gene No.	61622	Strand	+
Start	471	End	1224
Name	OJ990309_01.9819.C63.ol.tm	Method	TBLASTX:Maize
Start	739	End	1209
GI	none	Score	323
Exons	739..1035, 789..1034, 1117..1209		

Seq. No.	29863	Seq. ID	OJ990309_01.9819.C63
Gene No.	61622	Strand	+
Start	471	End	1224
Name	OJ990309_01.9819.C63.ol.tw	Method	TBLASTX:Wheat
Start	786	End	968
GI	none	Score	182
Exons	786..842, 790..966, 808..966, 822..968		

Seq. No.	29863	Seq. ID	OJ990309_01.9819.C63
Gene No.	61622	Strand	+
Start	471	End	1224
Name	OJ990309_01.9819.C63.ol.ts	Method	TBLASTX:Soybean
Start	790	End	1209
GI	none	Score	330
Exons	790..1035, 790..1032, 948..1034, 1117..1209		

Seq. No.	29864	Seq. ID	OJ990309_01.9819.C64
Gene No.	61623	Strand	-
Start	86	End	265
Name	OJ990309_01.9819.C64.ol.gs	Method	GENSCAN
Start	86	End	265
GI	none	Score	.48
Exons	86..265		

Seq. No.	29865	Seq. ID	OJ990309_01.9819.C66
Gene No.	61624	Strand	+
Start	65	End	271
Name	OJ990309_01.9819.C66.ol.gp	Method	AAT/GAP
Start	65	End	271
GI	2800006	Score	273
Exons	65..271		

Seq. No.	29865	Seq. ID	OJ990309_01.9819.C66
Gene No.	61625	Strand	-
Start	355	End	1673
Name	OJ990309_01.9819.C66.ol.tm	Method	TBLASTX:Maize
Start	166	End	1673
GI	none	Score	119
Exons	166..210, 170..256, 171..257, 171..257, 172..258, 200..268, 341..406, 345..407, 352..411, 354..410, 497..598, 498..599, 1522..1659, 1523..1648, 1524..1673, 1532..1672		

Seq. No.	29865	Seq. ID	OJ990309_01.9819.C66
Gene No.	61625	Strand	-
Start	355	End	1673

Name	OJ990309_01.9819.C66.o1.gs	Method	GENSCAN
Start	355	End	1659
GI	none	Score	.47
Exons	355..463, 1522..1659		
Seq. No.	29866	Seq. ID	OJ990309_01.9819.C67
Gene No.	61626	Strand	-
Start	539	End	2091
Name	OJ990309_01.9819.C67.o1.gs	Method	GENSCAN
Start	539	End	2091
GI	none	Score	.43
Exons	539..1622, 1901..2091		
Seq. No.	29867	Seq. ID	OJ990309_01.9819.C68
Gene No.	61627	Strand	-
Start	894	End	960
Name	OJ990309_01.9819.C68.o1.gs	Method	GENSCAN
Start	894	End	960
GI	none	Score	.48
Exons	894..960		
Seq. No.	29868	Seq. ID	OJ990309_01.9819.C69
Gene No.	61628	Strand	+
Start	210	End	512
Name	OJ990309_01.9819.C69.o1.gs	Method	GENSCAN
Start	210	End	512
GI	none	Score	.84
Exons	210..512		
Seq. No.	29868	Seq. ID	OJ990309_01.9819.C69
Gene No.	61628	Strand	+
Start	210	End	512
Name	OJ990309_01.9819.C69.o1.tm	Method	TBLASTX:Maize
Start	231	End	512
GI	none	Score	63
Exons	231..287, 231..281, 242..286, 286..510, 291..512, 297..407, 301..462, 308..508		
Seq. No.	29869	Seq. ID	OJ990309_01.9819.C70
Gene No.	61629	Strand	+
Start	782	End	951
Name	OJ990309_01.9819.C70.o1.gs	Method	GENSCAN
Start	782	End	951
GI	none	Score	.56
Exons	782..951		
Seq. No.	29869	Seq. ID	OJ990309_01.9819.C70
Gene No.	61630	Strand	-
Start	660	End	1074
Name	OJ990309_01.9819.C70.o1.gp	Method	AAT/GAP
Start	660	End	1074
GI	uC-osroM202023h12b1	Score	754
Exons	660..1074		
GI Descrip.	'3785989 8.0e-14 (AC005560) unknown protein [Arabidopsis thaliana]'		
Seq. No.	29869	Seq. ID	OJ990309_01.9819.C70

Gene No.	61630	Strand	-
Start	660	End	1074
Name	OJ990309_01.9819.C70.o1.tm	Method	TBLASTX:Maize
Start	694	End	950
GI	none	Score	110
Exons	694..795, 697..834, 698..817, 705..833, 850..945, 852..944, 854..946, 864..950		

Seq. No.	29870	Seq. ID	OJ990309_01.9819.C71
Gene No.	61631	Strand	-
Start	1	End	938
Name	OJ990309_01.9819.C71.o1.np	Method	AAT/NAP
Start	1	End	938
GI	2586082	Score	527
Exons	1..73, 158..938		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	29870	Seq. ID	OJ990309_01.9819.C71
Gene No.	61631	Strand	-
Start	1	End	938
Name	OJ990309_01.9819.C71.o1.gs	Method	GENSCAN
Start	171	End	645
GI	none	Score	.69
Exons	171..307, 425..592, 620..645		

Seq. No.	29870	Seq. ID	OJ990309_01.9819.C71
Gene No.	61631	Strand	-
Start	1	End	938
Name	OJ990309_01.9819.C71.o1.tw	Method	TBLASTX:Wheat
Start	271	End	600
GI	none	Score	67
Exons	271..600, 426..563		

Seq. No.	29870	Seq. ID	OJ990309_01.9819.C71
Gene No.	61631	Strand	-
Start	1	End	938
Name	OJ990309_01.9819.C71.o1.tm	Method	TBLASTX:Maize
Start	445	End	669
GI	none	Score	194
Exons	445..669		

Seq. No.	29871	Seq. ID	OJ990319_01.9819.C2
Gene No.	61632	Strand	+
Start	159	End	468
Name	OJ990319_01.9819.C2.o1.gs	Method	GENSCAN
Start	159	End	468
GI	none	Score	.77
Exons	159..259, 291..468		

Seq. No.	29872	Seq. ID	OJ990319_01.9819.C3
Gene No.	61633	Strand	-
Start	356	End	721
Name	OJ990319_01.9819.C3.o1.gs	Method	GENSCAN
Start	356	End	721
GI	none	Score	1
Exons	356..721		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61634	Strand	-
Start	1	End	1097
Name	OJ990319_01.9819.C4.o1.np	Method	AAT/NAP
Start	1	End	1097
GI	6498436	Score	75
Exons	1..45, 962..1097		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61635	Strand	
Start	4168	End	4556
Name	OJ990319_01.9819.C4.o1.tw	Method	TBLASTX:Wheat
Start	4168	End	4556
GI	none	Score	155
Exons	4168..4323, 4177..4317, 4179..4319, 4235..4339, 4235..4348, 4317..4556, 4350..4469		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61636	Strand	
Start	5187	End	6187
Name	OJ990319_01.9819.C4.o3.tw	Method	TBLASTX:Wheat
Start	5187	End	5522
GI	none	Score	159
Exons	5187..5429, 5403..5522		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61636	Strand	
Start	5187	End	6187
Name	OJ990319_01.9819.C4.o1.tm	Method	TBLASTX:Maize
Start	5280	End	6187
GI	none	Score	248
Exons	5280..5699, 5513..5692, 5733..6032, 5795..6031, 6015..6164, 6017..6187		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61637	Strand	
Start	6167	End	6522
Name	OJ990319_01.9819.C4.o2.tw	Method	TBLASTX:Wheat
Start	6167	End	6515
GI	none	Score	262
Exons	6167..6292, 6177..6485, 6207..6449, 6486..6515		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61637	Strand	
Start	6167	End	6522
Name	OJ990319_01.9819.C4.o2.tm	Method	TBLASTX:Maize
Start	6192	End	6522
GI	none	Score	179
Exons	6192..6368, 6203..6352, 6207..6392, 6363..6422, 6429..6515, 6429..6518, 6430..6522		

Seq. No.	29873	Seq. ID	OJ990319_01.9819.C4
Gene No.	61638	Strand	
Start	6714	End	7094
Name	OJ990319_01.9819.C4.o3.tm	Method	TBLASTX:Maize
Start	6714	End	7094

GI	none	Score	72
Exons	6714..6794, 6783..7094		
Seq. No.	29874	Seq. ID	OJ990319_01.9819.C5
Gene No.	61639	Strand	+
Start	1	End	732
Name	OJ990319_01.9819.C5.o1.np	Method	AAT/NAP
Start	1	End	732
GI	4680179	Score	300
Exons	1..732		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	29874	Seq. ID	OJ990319_01.9819.C5
Gene No.	61639	Strand	+
Start	1	End	732
Name	OJ990319_01.9819.C5.o1.tm	Method	TBLASTX:Maize
Start	55	End	345
GI	none	Score	219
Exons	55..345, 117..194, 276..341		
Seq. No.	29874	Seq. ID	OJ990319_01.9819.C5
Gene No.	61639	Strand	+
Start	1	End	732
Name	OJ990319_01.9819.C5.o1.tw	Method	TBLASTX:Wheat
Start	61	End	390
GI	none	Score	278
Exons	61..390, 117..194, 161..256, 276..329		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o1.ts	Method	TBLASTX:Soybean
Start	461	End	1129
GI	none	Score	60
Exons	461..721, 537..707, 740..1129, 762..941, 995..1078		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o1.gs	Method	GENSCAN
Start	470	End	1228
GI	none	Score	.58
Exons	470..1228		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o1.np	Method	AAT/NAP
Start	473	End	1369
GI	6630685	Score	848
Exons	473..1369		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369

Name	OJ990319_01.9819.C6.o1.tc	Method	TBLASTX:Cress
Start	491	End	856
GI	none	Score	83
Exons	491..703, 725..856		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	491	End	1147
GI	none	Score	120
Exons	491..1147, 506..730, 510..1139		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o2.tw	Method	TBLASTX:Wheat
Start	536	End	856
GI	none	Score	81
Exons	536..727, 536..712, 731..856		
Seq. No.	29875	Seq. ID	OJ990319_01.9819.C6
Gene No.	61640	Strand	-
Start	470	End	1369
Name	OJ990319_01.9819.C6.o1.tw	Method	TBLASTX:Wheat
Start	893	End	1267
GI	none	Score	52
Exons	893..1150, 1011..1139, 1175..1267		
Seq. No.	29876	Seq. ID	OJ990319_01.9819.C7
Gene No.	61641	Strand	+
Start	1998	End	2565
Name	OJ990319_01.9819.C7.o1.gs	Method	GENSCAN
Start	1998	End	2565
GI	none	Score	.73
Exons	1998..2021, 2098..2565		
Seq. No.	29877	Seq. ID	OJ990319_01.9819.C8
Gene No.	61642	Strand	-
Start	1	End	1797
Name	OJ990319_01.9819.C8.o1.np	Method	AAT/NAP
Start	1	End	1797
GI	2443320	Score	2358
Exons	1..1797		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		
Seq. No.	29877	Seq. ID	OJ990319_01.9819.C8
Gene No.	61642	Strand	-
Start	1	End	1797
Name	OJ990319_01.9819.C8.o1.tw	Method	TBLASTX:Wheat
Start	35	End	716
GI	none	Score	467
Exons	35..601, 49..600, 105..602, 109..603, 600..716, 601..714		
Seq. No.	29877	Seq. ID	OJ990319_01.9819.C8
Gene No.	61642	Strand	-
Start	1	End	1797

Name	OJ990319_01.9819.C8.o1.tm	Method	TBLASTX:Maize
Start	70	End	579
GI	none	Score	196
Exons	70..189, 271..579		
Seq. No.	29877	Seq. ID	OJ990319_01.9819.C8
Gene No.	61642	Strand	-
Start	1	End	1797
Name	OJ990319_01.9819.C8.o1.ts	Method	TBLASTX:Soybean
Start	82	End	483
GI	none	Score	106
Exons	82..189, 175..255, 253..483, 257..481		
Seq. No.	29877	Seq. ID	OJ990319_01.9819.C8
Gene No.	61642	Strand	-
Start	1	End	1797
Name	OJ990319_01.9819.C8.o2.tw	Method	TBLASTX:Wheat
Start	729	End	1185
GI	none	Score	126
Exons	729..938, 736..882, 746..892, 871..1149, 936..1148, 940..1185		
Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61643	Strand	+
Start	2314	End	3083
Name	OJ990319_01.9819.C9.o2.gs	Method	GENSCAN
Start	2314	End	3083
GI	none	Score	.49
Exons	2314..2605, 2875..3083		
Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61644	Strand	+
Start	15836	End	16404
Name	OJ990319_01.9819.C9.o1.gp	Method	AAT/GAP
Start	15836	End	16404
GI	4879016	Score	856
Exons	15836..16404		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		
Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61645	Strand	+
Start	18165	End	21377
Name	OJ990319_01.9819.C9.o6.gs	Method	GENSCAN
Start	18165	End	20843
GI	none	Score	.5
Exons	18165..18366, 18893..19222, 19826..19968, 20658..20843		
Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61645	Strand	+
Start	18165	End	21377
Name	OJ990319_01.9819.C9.o4.np	Method	AAT/NAP
Start	18507	End	21377
GI	6498436	Score	368
Exons	18507..18550, 19033..19103, 19134..19222, 19271..19777, 19844..19960, 21352..21377		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61646	Strand	+
Start	21879	End	23962
Name	OJ990319_01.9819.C9.o7.gs	Method	GENSCAN
Start	21879	End	23962
GI	none	Score	.59
Exons	21879..21959, 22458..22490, 22575..22740, 22933..23070, 23531..23888, 23929..23962		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61647	Strand	-
Start	3531	End	7002
Name	OJ990319_01.9819.C9.o3.gs	Method	GENSCAN
Start	3531	End	5240
GI	none	Score	.66
Exons	3531..4063, 4089..4336, 4338..4501, 4506..5240		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61647	Strand	-
Start	3531	End	7002
Name	OJ990319_01.9819.C9.o1.np	Method	AAT/NAP
Start	3654	End	7002
GI	4325357	Score	313
Exons	3654..4178, 4986..5581, 6979..7002		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61648	Strand	-
Start	7337	End	7743
Name	OJ990319_01.9819.C9.o2.np	Method	AAT/NAP
Start	7337	End	7743
GI	2462640	Score	523
Exons	7337..7743		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61649	Strand	-
Start	10647	End	16322
Name	OJ990319_01.9819.C9.o3.np	Method	AAT/NAP
Start	10647	End	16322
GI	6063554	Score	300
Exons	10647..10821, 11457..11484, 11772..12021, 16243..16322		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61649	Strand	-
Start	10647	End	16322
Name	OJ990319_01.9819.C9.o5.gs	Method	GENSCAN
Start	11687	End	15523
GI	none	Score	.45
Exons	11687..11760, 11762..11862, 11897..12126, 12909..13610, 13844..14062, 14489..14946, 15138..15278, 15364..15523		



Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o3.tm	Method	TBLASTX:Maize
Start	2301	End	21422
GI	none	Score	61
Exons	2301..2390, 2302..2628, 2317..2610, 2421..2750, 2421..2627, 2623..2676, 2729..2809, 2729..2824, 2730..2825, 21315..21422		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o6.tw	Method	TBLASTX:Wheat
Start	3993	End	4400
GI	none	Score	114
Exons	3993..4178, 4221..4400		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o5.tw	Method	TBLASTX:Wheat
Start	5246	End	5581
GI	none	Score	89
Exons	5246..5461, 5477..5581		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o4.tm	Method	TBLASTX:Maize
Start	5845	End	6235
GI	none	Score	44
Exons	5845..6048, 5908..5958, 6065..6175, 6071..6160, 6173..6235		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o2.tm	Method	TBLASTX:Maize
Start	6404	End	6787
GI	none	Score	76
Exons	6404..6526, 6411..6521, 6536..6595, 6537..6590, 6590..6787, 6612..6722		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o3.tw	Method	TBLASTX:Wheat
Start	6467	End	6761
GI	none	Score	157
Exons	6467..6751, 6480..6761		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o2.ts	Method	TBLASTX:Soybean
Start	6656	End	7153
GI	none	Score	55

Exons 6656..6730, 6657..6734, 6806..6904, 6822..6905, 6926..7153

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o1.tm	Method	TBLASTX:Maize
Start	6794	End	7544
GI	none	Score	51
Exons	6794..6913, 6932..7237, 6933..7046, 7141..7236, 7283..7384, 7284..7364, 7362..7544, 7428..7532		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o2.tw	Method	TBLASTX:Wheat
Start	8493	End	8808
GI	none	Score	176
Exons	8493..8753, 8497..8808		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o1.tw	Method	TBLASTX:Wheat
Start	18234	End	18774
GI	none	Score	205
Exons	18234..18527, 18250..18528, 18252..18368, 18425..18532, 18429..18536, 18544..18774, 18552..18728		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o8.gs	Method	GENSCAN
Start	25115	End	27740
GI	none	Score	.57
Exons	25115..25221, 25512..25611, 26788..26967, 27362..27447, 27521..27740		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o5.np	Method	AAT/NAP
Start	27399	End	27947
GI	6691191	Score	314
Exons	27399..27947		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947
Name	OJ990319_01.9819.C9.o1.ts	Method	TBLASTX:Soybean
Start	27608	End	27866
GI	none	Score	118
Exons	27608..27715, 27609..27866, 27609..27866		

Seq. No.	29878	Seq. ID	OJ990319_01.9819.C9
Gene No.	61650	Strand	-
Start	25115	End	27947

Name	OJ990319_01.9819.C9.o4.tw	Method	TBLASTX:Wheat
Start	27630	End	27866
GI	none	Score	237
Exons	27630..27866		
Seq. No.	29879	Seq. ID	OJ990319_01.9819.C11
Gene No.	61651	Strand	+
Start	84	End	308
Name	OJ990319_01.9819.C11.o1.gs	Method	GENSCAN
Start	84	End	308
GI	none	Score	.73
Exons	84..308		
Seq. No.	29880	Seq. ID	OJ990319_01.9819.C12
Gene No.	61652	Strand	+
Start	612	End	1289
Name	OJ990319_01.9819.C12.o1.gs	Method	GENSCAN
Start	612	End	1289
GI	none	Score	.64
Exons	612..626, 844..884, 1103..1289		
Seq. No.	29880	Seq. ID	OJ990319_01.9819.C12
Gene No.	61653	Strand	-
Start	2007	End	5445
Name	OJ990319_01.9819.C12.o2.gs	Method	GENSCAN
Start	2007	End	5445
GI	none	Score	.49
Exons	2007..2221, 2793..2921, 3129..3763, 5300..5445		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61654	Strand	+
Start	1265	End	1557
Name	OJ990319_01.9819.C13.o1.gs	Method	GENSCAN
Start	1265	End	1557
GI	none	Score	.64
Exons	1265..1374, 1465..1557		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61655	Strand	+
Start	4602	End	6786
Name	OJ990319_01.9819.C13.o1.np	Method	AAT/NAP
Start	4602	End	6786
GI	6063554	Score	252
Exons	4602..4791, 5935..5964, 6612..6786		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61656	Strand	+
Start	13411	End	17385
Name	OJ990319_01.9819.C13.o5.gs	Method	GENSCAN
Start	13411	End	17385
GI	none	Score	.56
Exons	13411..13491, 14215..14248, 14366..15340, 15403..15626, 15916..16371, 16383..16442, 16538..16621, 16735..17385		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61657	Strand	+
Start	30727	End	35717
Name	OJ990319_01.9819.C13.o4.np	Method	AAT/NAP
Start	30727	End	35717
GI	4680179	Score	5543
Exons	30727..30776, 31301..32309, 32337..35717		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61658	Strand	+
Start	35787	End	37246
Name	OJ990319_01.9819.C13.o6.np	Method	AAT/NAP
Start	35787	End	37246
GI	6063554	Score	128
Exons	35787..35957, 37073..37246		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61659	Strand	-
Start	4174	End	4769
Name	OJ990319_01.9819.C13.o2.gs	Method	GENSCAN
Start	4174	End	4769
GI	none	Score	.91
Exons	4174..4292, 4357..4524, 4568..4769		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61660	Strand	-
Start	5907	End	9757
Name	OJ990319_01.9819.C13.o3.gs	Method	GENSCAN
Start	5907	End	9757
GI	none	Score	.46
Exons	5907..5968, 6513..6641, 6761..6946, 9016..9199, 9695..9757		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61660	Strand	-
Start	5907	End	9757
Name	OJ990319_01.9819.C13.o1.gp	Method	AAT/GAP
Start	7138	End	7453
GI	61605_3.R1084	Score	441
Exons	7138..7453		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61661	Strand	-
Start	10504	End	11699
Name	OJ990319_01.9819.C13.o4.gs	Method	GENSCAN
Start	10504	End	11699
GI	none	Score	.51
Exons	10504..11212, 11464..11699		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61662	Strand	-
Start	17810	End	28856

Name	OJ990319_01.9819.C13.o6.gs	Method	GENSCAN
Start	17810	End	28856
GI	none	Score	.67
Exons	17810..19225, 19238..19730, 19782..19895, 20067..21273, 21364..21787, 21798..21959, 22163..22284, 22337..22776, 24816..25303, 25907..26155, 26187..26302, 27434..27617, 27626..27966, 28775..28856		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61662	Strand	-
Start	17810	End	28856
Name	OJ990319_01.9819.C13.o2.np	Method	AAT/NAP
Start	17831	End	24118
GI	4544372	Score	1163
Exons	17831..19434, 19547..19908, 19969..21127, 24074..24118		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o4.ts	Method	TBLASTX:Soybean
Start	17814	End	18070
GI	none	Score	46
Exons	17814..17858, 17825..18070, 17831..17860, 17898..18059, 17903..18070		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o1.tw	Method	TBLASTX:Wheat
Start	18161	End	35339
GI	none	Score	691
Exons	18161..18535, 34713..35339, 34769..35218, 34884..35330		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o6.ts	Method	TBLASTX:Soybean
Start	18614	End	18895
GI	none	Score	204
Exons	18614..18895		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o7.tm	Method	TBLASTX:Maize
Start	18644	End	18976
GI	none	Score	190
Exons	18644..18976		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o2.tw	Method	TBLASTX:Wheat
Start	18713	End	34706
GI	none	Score	604

Exons 18713..18823, 34167..34706, 34349..34702

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o10.tw	Method	TBLASTX:Wheat
Start	19139	End	19501
GI	none	Score	70
Exons	19139..19501, 19347..19490		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o2.ts	Method	TBLASTX:Soybean
Start	19265	End	19675
GI	none	Score	106
Exons	19265..19504, 19350..19514, 19524..19673, 19538..19675, 19538..19675		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o3.tw	Method	TBLASTX:Wheat
Start	19598	End	34139
GI	none	Score	589
Exons	19598..19726, 33714..34139, 33790..34113, 33791..34132		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o3.tm	Method	TBLASTX:Maize
Start	19601	End	34139
GI	none	Score	465
Exons	19601..19834, 33786..34139, 33791..34132		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o5.tw	Method	TBLASTX:Wheat
Start	19889	End	33713
GI	none	Score	73
Exons	19889..20014, 20015..20287, 33425..33517, 33450..33713, 33452..33712		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o2.tm	Method	TBLASTX:Maize
Start	19982	End	33683
GI	none	Score	199
Exons	19982..20443, 19983..20294, 20060..20443, 33255..33386, 33255..33389, 33467..33646, 33468..33683		

Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o1.ts	Method	TBLASTX:Soybean

Start	20015	End	33698
GI	none	Score	57
Exons	20015..20347, 33303..33335, 33303..33335, 33339..33698, 33341..33382, 33438..33668, 33455..33688		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o4.tw	Method	TBLASTX:Wheat
Start	20465	End	33362
GI	none	Score	517
Exons	20465..20692, 32879..33319, 32880..33362, 32904..33359		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o5.ts	Method	TBLASTX:Soybean
Start	20516	End	33191
GI	none	Score	77
Exons	20516..20647, 20654..20878, 20688..20867, 32877..33005, 33057..33191		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o5.tm	Method	TBLASTX:Maize
Start	20528	End	33181
GI	none	Score	317
Exons	20528..20686, 32889..33179, 32891..33181		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o9.tw	Method	TBLASTX:Wheat
Start	31460	End	31658
GI	none	Score	194
Exons	31460..31657, 31476..31658		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o6.tm	Method	TBLASTX:Maize
Start	31710	End	32048
GI	none	Score	217
Exons	31710..32048		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o7.tw	Method	TBLASTX:Wheat
Start	31710	End	32060
GI	none	Score	277
Exons	31710..32060		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999

Name	OJ990319_01.9819.C13.o8.tw	Method	TBLASTX:Wheat
Start	32394	End	32747
GI	none	Score	245
Exons	32394..32747		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o7.ts	Method	TBLASTX:Soybean
Start	33720	End	33968
GI	none	Score	204
Exons	33720..33968		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o3.ts	Method	TBLASTX:Soybean
Start	34494	End	34754
GI	none	Score	285
Exons	34494..34754, 34505..34753		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o4.tm	Method	TBLASTX:Maize
Start	34553	End	34844
GI	none	Score	396
Exons	34553..34840, 34554..34844		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	34892	End	35477
GI	none	Score	229
Exons	34892..35047, 34893..35054, 35051..35212, 35052..35477, 35297..35476		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o6.tw	Method	TBLASTX:Wheat
Start	35339	End	35672
GI	none	Score	307
Exons	35339..35620, 35340..35672		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-
Start	35787	End	39999
Name	OJ990319_01.9819.C13.o5.np	Method	AAT/NAP
Start	35768	End	36998
GI	5852179	Score	163
Exons	35768..35934, 36000..36153, 36978..36998		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		
Seq. No.	29881	Seq. ID	OJ990319_01.9819.C13
Gene No.	61663	Strand	-



Start 35787  
 Name OJ990319\_01.9819.C13.o8.gs  
 Start 35787  
 GI none  
 Exons 35787..36198, 38994..39040

End 39999  
 Method GENSCAN  
 End 39040  
 Score .89

Seq. No. 29881  
 Gene No. 61663  
 Start 35787  
 Name OJ990319\_01.9819.C13.o7.np  
 Start 36495  
 GI 5852175  
 Exons 36495..36560, 39815..39999  
 GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. ID OJ990319\_01.9819.C13  
 Strand -  
 End 39999  
 Method AAT/NAP  
 End 39999  
 Score 90

Seq. No. 29882  
 Gene No. 61664  
 Start 688  
 Name OJ990319\_01.9819.C14.o1.gs  
 Start 688  
 GI none  
 Exons 688..1191

Seq. ID OJ990319\_01.9819.C14  
 Strand +  
 End 1191  
 Method GENSCAN  
 End 1191  
 Score .43

Seq. No. 29882  
 Gene No. 61665  
 Start 1742  
 Name OJ990319\_01.9819.C14.o2.gs  
 Start 1742  
 GI none  
 Exons 1742..2008, 2171..2307, 2530..3034

Seq. ID OJ990319\_01.9819.C14  
 Strand -  
 End 3181  
 Method GENSCAN  
 End 3034  
 Score .46

Seq. No. 29882  
 Gene No. 61665  
 Start 1742  
 Name OJ990319\_01.9819.C14.o1.np  
 Start 1745  
 GI 4680179  
 Exons 1745..3181  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ990319\_01.9819.C14  
 Strand -  
 End 3181  
 Method AAT/NAP  
 End 3181  
 Score 1952

Seq. No. 29882  
 Gene No. 61665  
 Start 1742  
 Name OJ990319\_01.9819.C14.o3.tw  
 Start 1793  
 GI none  
 Exons 1793..2113, 2006..2119

Seq. ID OJ990319\_01.9819.C14  
 Strand -  
 End 3181  
 Method TBLASTX:Wheat  
 End 2119  
 Score 70

Seq. No. 29882  
 Gene No. 61665  
 Start 1742  
 Name OJ990319\_01.9819.C14.o1.tm  
 Start 1985  
 GI none  
 Exons 1985..2410, 2109..2411, 2408..2569, 2418..2561

Seq. ID OJ990319\_01.9819.C14  
 Strand -  
 End 3181  
 Method TBLASTX:Maize  
 End 2569  
 Score 124

Seq. No. 29882

Seq. ID OJ990319\_01.9819.C14

Gene No.	61665	Strand	-
Start	1742	End	3181
Name	OJ990319_01.9819.C14.o1.tw	Method	TBLASTX:Wheat
Start	2123	End	2749
GI	none	Score	287
Exons	2123..2749, 2124..2693		
Seq. No.	29882	Seq. ID	OJ990319_01.9819.C14
Gene No.	61665	Strand	-
Start	1742	End	3181
Name	OJ990319_01.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	2618	End	2910
GI	none	Score	270
Exons	2618..2908, 2622..2909, 2809..2910		
Seq. No.	29882	Seq. ID	OJ990319_01.9819.C14
Gene No.	61665	Strand	-
Start	1742	End	3181
Name	OJ990319_01.9819.C14.o1.ts	Method	TBLASTX:Soybean
Start	2708	End	2968
GI	none	Score	154
Exons	2708..2968, 2709..2966		
Seq. No.	29882	Seq. ID	OJ990319_01.9819.C14
Gene No.	61665	Strand	-
Start	1742	End	3181
Name	OJ990319_01.9819.C14.o2.tw	Method	TBLASTX:Wheat
Start	2756	End	3109
GI	none	Score	244
Exons	2756..3037, 2757..3038, 3037..3108, 3038..3109		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61666	Strand	+
Start	1	End	1054
Name	OJ990319_01.9819.C15.o1.np	Method	AAT/NAP
Start	1	End	1054
GI	2443320	Score	1462
Exons	1..1054		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61667	Strand	+
Start	12927	End	21372
Name	OJ990319_01.9819.C15.o3.gs	Method	GENSCAN
Start	12927	End	18877
GI	none	Score	.53
Exons	12927..13096, 13156..13277, 13595..13761, 14161..15163, 15235..15347, 15478..15577, 15707..17200, 17455..17787, 17934..18481, 18644..18877		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61667	Strand	+
Start	12927	End	21372
Name	OJ990319_01.9819.C15.o3.np	Method	AAT/NAP
Start	14329	End	18905
GI	4680179	Score	4430
Exons	14329..15388, 15491..18905		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61667	Strand	+
Start	12927	End	21372
Name	OJ990319_01.9819.C15.o4.np	Method	AAT/NAP
Start	16666	End	21372
GI	5777623	Score	437
Exons	16666..16735, 19220..19450, 19901..20490, 21035..21372		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61668	Strand	-
Start	2583	End	10690
Name	OJ990319_01.9819.C15.o2.gs	Method	GENSCAN
Start	2583	End	10690
GI	none	Score	.62
Exons	2583..2707, 2905..3020, 3093..3228, 3349..3519, 4219..4449, 4621..4946, 5082..5257, 5843..5908, 5951..6146, 6228..6439, 6760..7293, 7445..7509, 10123..10238, 10344..10690		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61668	Strand	-
Start	2583	End	10690
Name	OJ990319_01.9819.C15.o2.np	Method	AAT/NAP
Start	2640	End	6989
GI	6705984	Score	4753
Exons	2640..6989		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o8.tw	Method	TBLASTX:Wheat
Start	64	End	456
GI	none	Score	100
Exons	64..153, 65..154, 65..154, 131..313, 139..456, 145..426, 153..455		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o8.tm	Method	TBLASTX:Maize
Start	244	End	570
GI	none	Score	240
Exons	244..549, 337..570		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o5.ts	Method	TBLASTX:Soybean
Start	427	End	789
GI	none	Score	219
Exons	427..789		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-

Start	20012	End	20585
Name	OJ990319_01.9819.C15.o5.tw	Method	TBLASTX:Wheat
Start	529	End	1015
GI	none	Score	95
Exons	529..885, 531..794, 532..891, 871..987, 874..1014, 878..1015		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o10.tm	Method	TBLASTX:Maize
Start	613	End	1044
GI	none	Score	149
Exons	613..789, 630..770, 824..859, 878..1039, 886..1044		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o15.tm	Method	TBLASTX:Maize
Start	2508	End	2788
GI	none	Score	107
Exons	2508..2582, 2595..2726, 2598..2714, 2621..2725, 2651..2737, 2707..2772, 2715..2783, 2717..2788, 2722..2787		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o9.tw	Method	TBLASTX:Wheat
Start	2738	End	18862
GI	none	Score	363
Exons	2738..2827, 18529..18810, 18530..18862, 18536..18841		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o6.tm	Method	TBLASTX:Maize
Start	2789	End	3060
GI	none	Score	183
Exons	2789..3058, 2790..3059, 2842..3060		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o1.tw	Method	TBLASTX:Wheat
Start	2969	End	18529
GI	none	Score	101
Exons	2969..3445, 3117..3365, 17906..18529, 17959..18402, 18050..18478, 18460..18528		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	3092	End	18679
GI	none	Score	87
Exons	3092..3265, 18082..18234, 18083..18235, 18086..18244, 18091..18237, 18241..18423, 18241..18384, 18242..18679, 18242..18670		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o2.tm	Method	TBLASTX:Maize
Start	3361	End	17974
GI	none	Score	292
Exons	3361..3699, 3365..3709, 3365..3709, 17652..17768, 17836..17970, 17837..17974		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o4.ts	Method	TBLASTX:Soybean
Start	3416	End	17944
GI	none	Score	76
Exons	3416..3577, 3417..3572, 17697..17834, 17827..17943, 17828..17944		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	3428	End	17920
GI	none	Score	213
Exons	3428..3787, 3429..3677, 3431..3721, 17604..17777, 17625..17777, 17836..17904, 17837..17920		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o4.tw	Method	TBLASTX:Wheat
Start	3452	End	17896
GI	none	Score	450
Exons	3452..3577, 3578..3739, 17373..17834, 17525..17800, 17552..17869, 17610..17834, 17837..17896		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o2.tw	Method	TBLASTX:Wheat
Start	3742	End	17330
GI	none	Score	253
Exons	3742..4158, 3743..4168, 3744..4040, 3905..4156, 4083..4169, 17184..17330		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o6.ts	Method	TBLASTX:Soybean
Start	3896	End	17336
GI	none	Score	47
Exons	3896..3973, 3906..3974, 3968..4084, 3972..4040, 17184..17261, 17280..17336		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585

Name	OJ990319_01.9819.C15.o3.tm	Method	TBLASTX:Maize
Start	3929	End	17340
GI	none	Score	68
Exons	3929..4285, 3945..4061, 4013..4240, 16978..17199, 16980..17171, 17000..17173, 17154..17324, 17184..17330, 17185..17340		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o2.ts	Method	TBLASTX:Soybean
Start	4089	End	17157
GI	none	Score	184
Exons	4089..4319, 4091..4348, 16912..17157		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o13.tw	Method	TBLASTX:Wheat
Start	4187	End	17184
GI	none	Score	249
Exons	4187..4246, 17005..17184, 17007..17171, 17035..17178		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o6.tw	Method	TBLASTX:Wheat
Start	4256	End	17004
GI	none	Score	86
Exons	4256..4600, 4256..4657, 16603..17004, 16603..17001, 16647..17003		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o5.tm	Method	TBLASTX:Maize
Start	4286	End	16971
GI	none	Score	81
Exons	4286..4633, 4365..4568, 16624..16971		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	4382	End	16890
GI	none	Score	121
Exons	4382..4729, 4383..4721, 16495..16527, 16495..16527, 16531..16890, 16531..16839, 16758..16862		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o4.tm	Method	TBLASTX:Maize
Start	4652	End	16608
GI	none	Score	157
Exons	4652..5119, 4683..4985, 4745..5071, 16141..16608, 16212..16385		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-

Start	20012	End	20585
Name	OJ990319_01.9819.C15.o3.tw	Method	TBLASTX:Wheat
Start	4706	End	16554
GI	none	Score	156
Exons	4706..5188, 4707..5039, 16071..16526, 16072..16554, 16099..16545		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o11.tm	Method	TBLASTX:Maize
Start	5144	End	5344
GI	none	Score	162
Exons	5144..5287, 5151..5294, 5221..5304, 5300..5344		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o7.tw	Method	TBLASTX:Wheat
Start	5498	End	5989
GI	none	Score	144
Exons	5498..5704, 5538..5705, 5581..5706, 5662..5706, 5708..5989, 5740..5865, 5742..5969		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o7.tm	Method	TBLASTX:Maize
Start	5513	End	5749
GI	none	Score	118
Exons	5513..5749, 5525..5743		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o3.ts	Method	TBLASTX:Soybean
Start	5529	End	5938
GI	none	Score	69
Exons	5529..5657, 5531..5677, 5651..5938, 5673..5894		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o10.tw	Method	TBLASTX:Wheat
Start	6356	End	6811
GI	none	Score	111
Exons	6356..6697, 6356..6703, 6400..6759, 6725..6811, 6728..6790		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o12.tw	Method	TBLASTX:Wheat
Start	14551	End	14928
GI	none	Score	265
Exons	14551..14928		

Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-

Start	20012	End	20585
Name	OJ990319_01.9819.C15.o9.tm	Method	TBLASTX:Maize
Start	14809	End	15255
GI	none	Score	231
Exons	14809..15141, 15208..15255		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o12.tm	Method	TBLASTX:Maize
Start	15520	End	15845
GI	none	Score	198
Exons	15520..15843, 15523..15660, 15762..15845		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o11.tw	Method	TBLASTX:Wheat
Start	15526	End	15951
GI	none	Score	157
Exons	15526..15747, 15526..15579, 15576..15680, 15756..15902, 15760..15951		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o13.tm	Method	TBLASTX:Maize
Start	15943	End	16140
GI	none	Score	192
Exons	15943..16140, 15993..16139		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o14.tm	Method	TBLASTX:Maize
Start	18686	End	18847
GI	none	Score	190
Exons	18686..18844, 18689..18847		
Seq. No.	29883	Seq. ID	OJ990319_01.9819.C15
Gene No.	61669	Strand	-
Start	20012	End	20585
Name	OJ990319_01.9819.C15.o4.gs	Method	GENSCAN
Start	20012	End	20585
GI	none	Score	.66
Exons	20012..20358, 20405..20585		
Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61670	Strand	+
Start	1213	End	2834
Name	OJ990319_01.9819.C16.o1.np	Method	AAT/NAP
Start	1213	End	2834
GI	6063554	Score	268
Exons	1213..1360, 1479..1718, 2659..2834		
GI Descrip.	(AF000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		



Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o2.np	Method	AAT/NAP
Start	4220	End	4981
GI	4512229	Score	981
Exons	4220..4981		
GI Descrip.	(AB014740) ORF0 protein [Oryza sativa]		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o3.np	Method	AAT/NAP
Start	4662	End	6561
GI	4680179	Score	945
Exons	4662..4772, 5314..6278, 6306..6561		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o2.gs	Method	GENSCAN
Start	5305	End	5886
GI	none	Score	.54
Exons	5305..5886		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o3.tw	Method	TBLASTX:Wheat
Start	5431	End	5613
GI	none	Score	179
Exons	5431..5613, 5433..5603		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	5665	End	5964
GI	none	Score	221
Exons	5665..5964		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o1.tw	Method	TBLASTX:Wheat
Start	5665	End	6009
GI	none	Score	289
Exons	5665..6009, 5736..5813, 5895..5948		

Seq. No.	29884	Seq. ID	OJ990319_01.9819.C16
Gene No.	61671	Strand	+
Start	4220	End	6561
Name	OJ990319_01.9819.C16.o2.tw	Method	TBLASTX:Wheat
Start	6204	End	6446
GI	none	Score	88

Exons 6204..6317, 6209..6250, 6282..6446, 6320..6445

Seq. No.	29885	Seq. ID	OJ990319_01.9819.C18
Gene No.	61672	Strand	+
Start	115	End	510
Name	OJ990319_01.9819.C18.o1.gs	Method	GENSCAN
Start	115	End	510
GI	none	Score	.97
Exons	115..510		

Seq. No.	29886	Seq. ID	OJ990319_01.9819.C19
Gene No.	61673	Strand	+
Start	286	End	403
Name	OJ990319_01.9819.C19.o1.gs	Method	GENSCAN
Start	286	End	403
GI	none	Score	.47
Exons	286..403		

Seq. No.	29886	Seq. ID	OJ990319_01.9819.C19
Gene No.	61674	Strand	+
Start	521	End	992
Name	OJ990319_01.9819.C19.o2.np	Method	AAT/NAP
Start	521	End	992
GI	5777623	Score	240
Exons	521..819, 921..992		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	29886	Seq. ID	OJ990319_01.9819.C19
Gene No.	61675	Strand	-
Start	258	End	992
Name	OJ990319_01.9819.C19.o1.np	Method	AAT/NAP
Start	258	End	992
GI	6069659	Score	89
Exons	258..385, 934..992		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	29887	Seq. ID	OJ990319_02.9819.C1
Gene No.	61676	Strand	+
Start	118	End	326
Name	OJ990319_02.9819.C1.o1.gp	Method	AAT/GAP
Start	118	End	326
GI	uC-osflcyp159e06b1	Score	375
Exons	118..326		
GI Descrip.	'20255/emb Z11920 OSHSP82A 1.0e-17 O.sativa gene for heat shock protein 82 HSP82'		

Seq. No.	29887	Seq. ID	OJ990319_02.9819.C1
Gene No.	61677	Strand	-
Start	1	End	1307
Name	OJ990319_02.9819.C1.o1.np	Method	AAT/NAP
Start	1	End	1307
GI	5734587	Score	697
Exons	1..27, 105..375, 676..870, 975..1307		
GI Descrip.	(AJ245862) putative external rotenone-insensitive NADH dehydrogenase [Solanum tuberosum]		

Seq. No.	29887	Seq. ID	OJ990319_02.9819.C1
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Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o1.tm  
 Start 109  
 GI none  
 Exons 109..378, 118..378

Strand -  
 End 1307  
 Method TBLASTX:Maize  
 End 378  
 Score 141

Seq. No. 29887  
 Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o1.ts  
 Start 109  
 GI none  
 Exons 109..402, 110..376, 202..390, 674..790, 676..783, 784..873, 794..874, 975..1160, 975..1169, 976..1170, 1061..1183

Seq. ID OJ990319\_02.9819.C1  
 Strand -  
 End 1307  
 Method TBLASTX:Soybean  
 End 1183  
 Score 110

Seq. No. 29887  
 Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o1.gs  
 Start 125  
 GI none  
 Exons 125..375, 676..870, 975..1233

Seq. ID OJ990319\_02.9819.C1  
 Strand -  
 End 1307  
 Method GENSCAN  
 End 1233  
 Score .9

Seq. No. 29887  
 Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o1.tc  
 Start 127  
 GI none  
 Exons 127..402, 128..274, 202..276, 320..376, 674..790, 676..789, 793..852, 794..850, 975..1160, 977..1177, 984..1187, 985..1179

Seq. ID OJ990319\_02.9819.C1  
 Strand -  
 End 1307  
 Method TBLASTX:Cress  
 End 1187  
 Score 67

Seq. No. 29887  
 Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o1.tw  
 Start 818  
 GI none  
 Exons 818..853, 819..872, 820..873, 820..873, 969..1172, 975..1160, 976..1173, 1149..1229, 1171..1230

Seq. ID OJ990319\_02.9819.C1  
 Strand -  
 End 1307  
 Method TBLASTX:Wheat  
 End 1230  
 Score 69

Seq. No. 29887  
 Gene No. 61677  
 Start 1  
 Name OJ990319\_02.9819.C1.o2.tm  
 Start 984  
 GI none  
 Exons 984..1169, 997..1164

Seq. ID OJ990319\_02.9819.C1  
 Strand -  
 End 1307  
 Method TBLASTX:Maize  
 End 1169  
 Score 72

Seq. No. 29888  
 Gene No. 61678  
 Start 254  
 Name OJ990319\_02.9819.C2.o1.gs  
 Start 254  
 GI none  
 Exons 254..317, 349..512

Seq. ID OJ990319\_02.9819.C2  
 Strand -  
 End 512  
 Method GENSCAN  
 End 512  
 Score .51

Seq. No.	29889	Seq. ID	OJ990319_02.9819.C3
Gene No.	61679	Strand	+
Start	952	End	1670
Name	OJ990319_02.9819.C3.o1.gs	Method	GENSCAN
Start	952	End	1670
GI	none	Score	.84
Exons	952..1116, 1373..1670		

Seq. No.	29890	Seq. ID	OJ990319_02.9819.C4
Gene No.	61680	Strand	-
Start	291	End	818
Name	OJ990319_02.9819.C4.o1.gs	Method	GENSCAN
Start	291	End	818
GI	none	Score	.51
Exons	291..301, 357..382, 748..818		

Seq. No.	29891	Seq. ID	OJ990319_02.9819.C6
Gene No.	61681	Strand	-
Start	661	End	1334
Name	OJ990319_02.9819.C6.o1.gs	Method	GENSCAN
Start	661	End	1334
GI	none	Score	.52
Exons	661..692, 1207..1334		

Seq. No.	29892	Seq. ID	OJ990319_02.9819.C7
Gene No.	61682	Strand	+
Start	1155	End	1232
Name	OJ990319_02.9819.C7.o1.np	Method	AAT/NAP
Start	1155	End	1232
GI	6630699	Score	89
Exons	1155..1232		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29892	Seq. ID	OJ990319_02.9819.C7
Gene No.	61683	Strand	-
Start	517	End	1226
Name	OJ990319_02.9819.C7.o1.gs	Method	GENSCAN
Start	517	End	1226
GI	none	Score	.76
Exons	517..541, 876..1050, 1143..1226		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61684	Strand	+
Start	103	End	5228
Name	OJ990319_02.9819.C8.o1.np	Method	AAT/NAP
Start	103	End	2848
GI	6539570	Score	141
Exons	103..306, 495..561, 2824..2848		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61684	Strand	+
Start	103	End	5228
Name	OJ990319_02.9819.C8.o1.gs	Method	GENSCAN

Start	1853	End	3166
GI	none	Score	.4
Exons	1853..1924, 2359..2648, 2977..3166		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61684	Strand	+
Start	103	End	5228
Name	OJ990319_02.9819.C8.o1.gp	Method	AAT/GAP
Start	2172	End	2656
GI	LIB3479-001-Q6-K2-G5	Score	783
Exons	2172..2656		
GI Descrip.	'4126693/dbj BAA36698  4.0e-28 (AB016504) prolamin [Oryza sativa]'		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61684	Strand	+
Start	103	End	5228
Name	OJ990319_02.9819.C8.o2.np	Method	AAT/NAP
Start	2239	End	2694
GI	4126693	Score	674
Exons	2239..2694		
GI Descrip.	(AB016504) prolamin [Oryza sativa] gi 6180118 gb AAF05813.1 AF194115_1 (AF194115) prolamin.7 [Oryza sativa]		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61684	Strand	+
Start	103	End	5228
Name	OJ990319_02.9819.C8.o3.np	Method	AAT/NAP
Start	2764	End	5228
GI	5042463	Score	209
Exons	2764..2807, 4006..4193, 5191..5228		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	29893	Seq. ID	OJ990319_02.9819.C8
Gene No.	61685	Strand	-
Start	3468	End	4572
Name	OJ990319_02.9819.C8.o2.gs	Method	GENSCAN
Start	3468	End	4572
GI	none	Score	.68
Exons	3468..3521, 3616..3748, 4061..4190, 4560..4572		

Seq. No.	29894	Seq. ID	OJ990319_02.9819.C9
Gene No.	61686	Strand	+
Start	951	End	1385
Name	OJ990319_02.9819.C9.o1.np	Method	AAT/NAP
Start	951	End	1385
GI	4680185	Score	469
Exons	951..1385		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	29894	Seq. ID	OJ990319_02.9819.C9
Gene No.	61687	Strand	+
Start	1589	End	3207
Name	OJ990319_02.9819.C9.o2.gs	Method	GENSCAN
Start	1589	End	3012
GI	none	Score	.95

Exons 1589..1656, 2288..2549, 2761..3012

Seq. No.	29894	Seq. ID	OJ990319_02.9819.C9
Gene No.	61687	Strand	+
Start	1589	End	3207
Name	OJ990319_02.9819.C9.o2.np	Method	AAT/NAP
Start	2216	End	3207
GI	5042463	Score	89
Exons	2216..2426, 2473..2573, 3173..3207		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	29894	Seq. ID	OJ990319_02.9819.C9
Gene No.	61688	Strand	-
Start	434	End	1454
Name	OJ990319_02.9819.C9.o1.gs	Method	GENSCAN
Start	434	End	1454
GI	none	Score	.93
Exons	434..519, 816..987, 1080..1454		

Seq. No.	29895	Seq. ID	OJ990319_02.9819.C10
Gene No.	61689	Strand	+
Start	1	End	1993
Name	OJ990319_02.9819.C10.o1.np	Method	AAT/NAP
Start	1	End	1312
GI	6721512	Score	107
Exons	1..89, 1125..1312		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	29895	Seq. ID	OJ990319_02.9819.C10
Gene No.	61689	Strand	+
Start	1	End	1993
Name	OJ990319_02.9819.C10.o1.gs	Method	GENSCAN
Start	175	End	1993
GI	none	Score	.6
Exons	175..492, 550..840, 995..1112, 1890..1993		

Seq. No.	29895	Seq. ID	OJ990319_02.9819.C10
Gene No.	61690	Strand	+
Start	3547	End	3797
Name	OJ990319_02.9819.C10.o2.gs	Method	GENSCAN
Start	3547	End	3797
GI	none	Score	.53
Exons	3547..3627, 3645..3797		

Seq. No.	29896	Seq. ID	OJ990319_02.9819.C12
Gene No.	61691	Strand	+
Start	1	End	1027
Name	OJ990319_02.9819.C12.o1.np	Method	AAT/NAP
Start	1	End	1027
GI	3080393	Score	215
Exons	1..139, 219..331, 997..1027		
GI Descrip.	(AL022603) NADH dehydrogenase like protein [Arabidopsis thaliana]		

Seq. No.	29896	Seq. ID	OJ990319_02.9819.C12
Gene No.	61691	Strand	+
Start	1	End	1027

Name	OJ990319_02.9819.C12.o1.tm	Method	TBLASTX:Maize
Start	44	End	325
GI	none	Score	132
Exons	44..133, 52..129, 56..139, 57..140, 58..135, 216..323, 219..323, 239..325		

Seq. No.	29896	Seq. ID	OJ990319_02.9819.C12
Gene No.	61691	Strand	+
Start	1	End	1027
Name	OJ990319_02.9819.C12.o1.tc	Method	TBLASTX:Cress
Start	53	End	348
GI	none	Score	114
Exons	53..133, 55..129, 75..149, 216..320, 225..323, 241..348		

Seq. No.	29896	Seq. ID	OJ990319_02.9819.C12
Gene No.	61691	Strand	+
Start	1	End	1027
Name	OJ990319_02.9819.C12.o1.ts	Method	TBLASTX:Soybean
Start	53	End	281
GI	none	Score	127
Exons	53..133, 55..135, 55..132, 60..134, 219..281		

Seq. No.	29896	Seq. ID	OJ990319_02.9819.C12
Gene No.	61691	Strand	+
Start	1	End	1027
Name	OJ990319_02.9819.C12.o1.gs	Method	GENSCAN
Start	65	End	323
GI	none	Score	.95
Exons	65..133, 219..323		

Seq. No.	29897	Seq. ID	OJ990319_02.9819.C13
Gene No.	61692	Strand	+
Start	324	End	336
Name	OJ990319_02.9819.C13.o1.gs	Method	GENSCAN
Start	324	End	336
GI	none	Score	.9
Exons	324..336		

Seq. No.	29898	Seq. ID	OJ990319_02.9819.C14
Gene No.	61693	Strand	-
Start	28	End	431
Name	OJ990319_02.9819.C14.o1.gs	Method	GENSCAN
Start	28	End	379
GI	none	Score	.9
Exons	28..130, 252..379		

Seq. No.	29898	Seq. ID	OJ990319_02.9819.C14
Gene No.	61693	Strand	-
Start	28	End	431
Name	OJ990319_02.9819.C14.o1.gp	Method	AAT/GAP
Start	72	End	431
GI	102_14.R1084	Score	388
Exons	72..130, 252..431		
GI Descrip.	'5822826/dbj AB028602.1 AB028602 1.0e-101 Oryza sativa D1 gene for alpha-subunit of GTP-binding protein, wild type, partial sequence'		

Seq. No.	29899	Seq. ID	OJ990319_02.9819.C15
Gene No.	61694	Strand	-
Start	2054	End	2407
Name	OJ990319_02.9819.C15.o2.gs	Method	GENSCAN
Start	2054	End	2407
GI	none	Score	.56
Exons	2054..2407		

Seq. No.	29899	Seq. ID	OJ990319_02.9819.C15
Gene No.	61695	Strand	-
Start	2508	End	2724
Name	OJ990319_02.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	2231	End	2693
GI	none	Score	140
Exons	2231..2326, 2348..2401, 2503..2562, 2559..2693		

Seq. No.	29899	Seq. ID	OJ990319_02.9819.C15
Gene No.	61695	Strand	-
Start	2508	End	2724
Name	OJ990319_02.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	2348	End	2724
GI	none	Score	70
Exons	2348..2422, 2509..2568, 2559..2693, 2605..2694, 2689..2724		

Seq. No.	29899	Seq. ID	OJ990319_02.9819.C15
Gene No.	61695	Strand	-
Start	2508	End	2724
Name	OJ990319_02.9819.C15.o1.tw	Method	TBLASTX:Wheat
Start	2500	End	2694
GI	none	Score	94
Exons	2500..2568, 2559..2693, 2594..2689, 2602..2694		

Seq. No.	29899	Seq. ID	OJ990319_02.9819.C15
Gene No.	61695	Strand	-
Start	2508	End	2724
Name	OJ990319_02.9819.C15.o1.np	Method	AAT/NAP
Start	2508	End	2724
GI	3337349	Score	184
Exons	2508..2724		
GI Descrip.	(AC004481) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	29900	Seq. ID	OJ990319_02.9819.C17
Gene No.	61696	Strand	+
Start	382	End	615
Name	OJ990319_02.9819.C17.o1.gs	Method	GENSCAN
Start	382	End	615
GI	none	Score	.4
Exons	382..448, 479..615		

Seq. No.	29901	Seq. ID	OJ990319_02.9819.C18
Gene No.	61697	Strand	+
Start	190	End	549
Name	OJ990319_02.9819.C18.o1.gs	Method	GENSCAN
Start	190	End	549
GI	none	Score	.94
Exons	190..549		



Seq. No.	29902	Seq. ID	OJ990319_02.9819.C19
Gene No.	61698	Strand	+
Start	1	End	1298
Name	OJ990319_02.9819.C19.o1.np	Method	AAT/NAP
Start	1	End	1298
GI	6598399	Score	213
Exons	1..32, 229..762, 1217..1298		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	29902	Seq. ID	OJ990319_02.9819.C19
Gene No.	61698	Strand	+
Start	1	End	1298
Name	OJ990319_02.9819.C19.o1.gs	Method	GENSCAN
Start	199	End	768
GI	none	Score	.77
Exons	199..768		

Seq. No.	29902	Seq. ID	OJ990319_02.9819.C19
Gene No.	61698	Strand	+
Start	1	End	1298
Name	OJ990319_02.9819.C19.o1.ts	Method	TBLASTX:Soybean
Start	337	End	735
GI	none	Score	95
Exons	337..453, 436..735		

Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o1.np	Method	AAT/NAP
Start	1	End	4026
GI	4582447	Score	1074
Exons	1..64, 1106..1242, 1288..2795, 2957..3391, 3422..4026		
GI Descrip.	(AC007071) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o1.gs	Method	GENSCAN
Start	99	End	3583
GI	none	Score	.51
Exons	99..228, 499..584, 782..992, 1370..1746, 1929..2013, 3411..3583		

Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o2.tm	Method	TBLASTX:Maize
Start	1273	End	1734
GI	none	Score	77
Exons	1273..1428, 1420..1734, 1431..1559, 1632..1706		

Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o1.tw	Method	TBLASTX:Wheat
Start	1317	End	1698

GI	none	Score	220
Exons	1317..1409, 1318..1536, 1524..1697, 1531..1698		
Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o4.tw	Method	TBLASTX:Wheat
Start	1868	End	2069
GI	none	Score	188
Exons	1868..2068, 1869..2069		
Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o1.ts	Method	TBLASTX:Soybean
Start	1989	End	2408
GI	none	Score	121
Exons	1989..2177, 2208..2408		
Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o1.tm	Method	TBLASTX:Maize
Start	2064	End	2425
GI	none	Score	296
Exons	2064..2417, 2084..2425		
Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o2.tw	Method	TBLASTX:Wheat
Start	2073	End	2471
GI	none	Score	329
Exons	2073..2396, 2081..2419, 2397..2471		
Seq. No.	29903	Seq. ID	OJ990319_02.9819.C20
Gene No.	61699	Strand	+
Start	1	End	4026
Name	OJ990319_02.9819.C20.o3.tw	Method	TBLASTX:Wheat
Start	3017	End	3436
GI	none	Score	258
Exons	3017..3436, 3025..3294, 3347..3436		
Seq. No.	29904	Seq. ID	OJ990319_02.9819.C21
Gene No.	61700	Strand	-
Start	765	End	835
Name	OJ990319_02.9819.C21.o1.gs	Method	GENSCAN
Start	765	End	835
GI	none	Score	.46
Exons	765..835		
Seq. No.	29905	Seq. ID	OJ990319_02.9819.C24
Gene No.	61701	Strand	+
Start	897	End	1125
Name	OJ990319_02.9819.C24.o1.gp	Method	AAT/GAP
Start	897	End	1125
GI	61605_3.R1084	Score	211

Exons 897..928, 994..1125  
 GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No.	29906	Seq. ID	OJ990319_02.9819.C26
Gene No.	61702	Strand	+
Start	80	End	313
Name	OJ990319_02.9819.C26.o1.gs	Method	GENSCAN
Start	80	End	313
GI	none	Score	.43
Exons	80..313		

Seq. No.	29907	Seq. ID	OJ990319_02.9819.C27
Gene No.	61703	Strand	+
Start	2027	End	2266
Name	OJ990319_02.9819.C27.o1.gs	Method	GENSCAN
Start	2027	End	2266
GI	none	Score	.85
Exons	2027..2114, 2205..2266		

Seq. No.	29907	Seq. ID	OJ990319_02.9819.C27
Gene No.	61704	Strand	+
Start	3207	End	3350
Name	OJ990319_02.9819.C27.o1.np	Method	AAT/NAP
Start	3207	End	3350
GI	6815099	Score	76
Exons	3207..3350		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	29907	Seq. ID	OJ990319_02.9819.C27
Gene No.	61705	Strand	-
Start	3399	End	4128
Name	OJ990319_02.9819.C27.o2.gs	Method	GENSCAN
Start	3399	End	4128
GI	none	Score	.52
Exons	3399..3457, 4086..4128		

Seq. No.	29908	Seq. ID	OJ990319_02.9819.C28
Gene No.	61706	Strand	+
Start	473	End	756
Name	OJ990319_02.9819.C28.o1.gs	Method	GENSCAN
Start	473	End	756
GI	none	Score	.42
Exons	473..550, 656..756		

Seq. No.	29909	Seq. ID	OJ990319_02.9819.C29
Gene No.	61707	Strand	-
Start	1873	End	2041
Name	OJ990319_02.9819.C29.o1.gs	Method	GENSCAN
Start	1873	End	2041
GI	none	Score	.58
Exons	1873..2041		

Seq. No.	29910	Seq. ID	OJ990319_02.9819.C30
Gene No.	61708	Strand	-
Start	124	End	682
Name	OJ990319_02.9819.C30.o1.gs	Method	GENSCAN

Start 124  
 GI none  
 Exons 124..274, 525..682

End 682  
 Score .5

Seq. No. 29911  
 Gene No. 61709  
 Start 84  
 Name OJ990319\_02.9819.C31.ol.gs  
 Start 84  
 GI none  
 Exons 84..455, 810..891, 969..1039

Seq. ID OJ990319\_02.9819.C31  
 Strand -  
 End 1039  
 Method GENSCAN  
 End 1039  
 Score .9

Seq. No. 29912  
 Gene No. 61710  
 Start 1  
 Name OJ990319\_02.9819.C32.ol.np  
 Start 1  
 GI 5852180  
 Exons 1..96, 546..841  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. ID OJ990319\_02.9819.C32  
 Strand -  
 End 841  
 Method AAT/NAP  
 End 841  
 Score 198

Seq. No. 29912  
 Gene No. 61710  
 Start 1  
 Name OJ990319\_02.9819.C32.ol.gs  
 Start 141  
 GI none  
 Exons 141..722

Seq. ID OJ990319\_02.9819.C32  
 Strand -  
 End 841  
 Method GENSCAN  
 End 722  
 Score .44

Seq. No. 29913  
 Gene No. 61711  
 Start 422  
 Name OJ990319\_02.9819.C33.ol.gs  
 Start 422  
 GI none  
 Exons 422..566, 872..928

Seq. ID OJ990319\_02.9819.C33  
 Strand +  
 End 1182  
 Method GENSCAN  
 End 928  
 Score .53

Seq. No. 29913  
 Gene No. 61711  
 Start 422  
 Name OJ990319\_02.9819.C33.o2.np  
 Start 638  
 GI 6539585  
 Exons 638..807, 1104..1182  
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. ID OJ990319\_02.9819.C33  
 Strand +  
 End 1182  
 Method AAT/NAP  
 End 1182  
 Score 257

Seq. No. 29913  
 Gene No. 61712  
 Start 1  
 Name OJ990319\_02.9819.C33.ol.np  
 Start 1  
 GI 6721562  
 Exons 1..421  
 GI Descrip. (AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]  
 gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza

Seq. ID OJ990319\_02.9819.C33  
 Strand -  
 End 421  
 Method AAT/NAP  
 End 421  
 Score 168

sativa]

Seq. No.	29914	Seq. ID	OJ990319_02.9819.C34
Gene No.	61713	Strand	-
Start	908	End	1138
Name	OJ990319_02.9819.C34.o1.gs	Method	GENSCAN
Start	908	End	1138
GI	none	Score	.67
Exons	908..1138		
Seq. No.	29915	Seq. ID	OJ990319_02.9819.C35
Gene No.	61714	Strand	+
Start	310	End	510
Name	OJ990319_02.9819.C35.o1.gs	Method	GENSCAN
Start	310	End	510
GI	none	Score	.55
Exons	310..510		
Seq. No.	29916	Seq. ID	OJ990319_02.9819.C38
Gene No.	61715	Strand	+
Start	750	End	1131
Name	OJ990319_02.9819.C38.o1.gp	Method	AAT/GAP
Start	750	End	1131
GI	uC-osflcyp033a04b1	Score	643
Exons	750..1131		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	29916	Seq. ID	OJ990319_02.9819.C38
Gene No.	61716	Strand	-
Start	683	End	2212
Name	OJ990319_02.9819.C38.o1.np	Method	AAT/NAP
Start	683	End	2212
GI	4680186	Score	352
Exons	683..883, 1722..1783, 2161..2212		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	29917	Seq. ID	OJ990319_02.9819.C39
Gene No.	61717	Strand	+
Start	462	End	545
Name	OJ990319_02.9819.C39.o1.np	Method	AAT/NAP
Start	462	End	545
GI	6630699	Score	88
Exons	462..545		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	29917	Seq. ID	OJ990319_02.9819.C39
Gene No.	61718	Strand	-
Start	189	End	418
Name	OJ990319_02.9819.C39.o1.gs	Method	GENSCAN
Start	189	End	418
GI	none	Score	.62
Exons	189..326, 344..418		
Seq. No.	29917	Seq. ID	OJ990319_02.9819.C39

Gene No.	61719	Strand	-
Start	681	End	758
Name	OJ990319_02.9819.C39.o2.gs	Method	GENSCAN
Start	681	End	758
GI	none	Score	.64
Exons	681..758		
Seq. No.	29917	Seq. ID	OJ990319_02.9819.C39
Gene No.	61720	Strand	-
Start	684	End	817
Name	OJ990319_02.9819.C39.o2.np	Method	AAT/NAP
Start	684	End	817
GI	5922620	Score	124
Exons	684..817		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	29918	Seq. ID	OJ990319_02.9819.C40
Gene No.	61721	Strand	-
Start	303	End	349
Name	OJ990319_02.9819.C40.o1.gs	Method	GENSCAN
Start	303	End	349
GI	none	Score	.76
Exons	303..349		
Seq. No.	29919	Seq. ID	OJ990319_02.9819.C41
Gene No.	61722	Strand	-
Start	1	End	814
Name	OJ990319_02.9819.C41.o1.np	Method	AAT/NAP
Start	1	End	814
GI	4490747	Score	162
Exons	1..190, 277..352, 450..498, 665..814		
GI Descrip.	(AL035708) DnaJ-like protein [Arabidopsis thaliana]		
Seq. No.	29919	Seq. ID	OJ990319_02.9819.C41
Gene No.	61722	Strand	-
Start	1	End	814
Name	OJ990319_02.9819.C41.o1.tm	Method	TBLASTX:Maize
Start	70	End	708
GI	none	Score	36
Exons	70..99, 78..101, 106..180, 120..179, 271..354, 272..355, 273..353, 426..500, 447..497, 449..499, 664..708		
Seq. No.	29920	Seq. ID	OJ990319_02.9819.C43
Gene No.	61723	Strand	-
Start	1089	End	1370
Name	OJ990319_02.9819.C43.o1.gs	Method	GENSCAN
Start	1089	End	1370
GI	none	Score	.6
Exons	1089..1193, 1305..1370		
Seq. No.	29921	Seq. ID	OJ990319_02.9819.C46
Gene No.	61724	Strand	-
Start	461	End	1387

Name	OJ990319_02.9819.C46.o1.gs	Method	GENSCAN
Start	461	End	1367
GI	none	Score	.65
Exons	461..686, 959..1083, 1218..1367		
Seq. No.	29921	Seq. ID	OJ990319_02.9819.C46
Gene No.	61724	Strand	-
Start	461	End	1387
Name	OJ990319_02.9819.C46.o1.gp	Method	AAT/GAP
Start	801	End	1387
GI	66 8.R1084	Score	827
Exons	801..1387		
GI Descrip.	'82501/pir  JH0220 1.0e-41 prolamin precursor (clone pS23) - rice >gi_20302_emb_CAA37849_ (X53856) prolamin [Oryza sativa]'		
Seq. No.	29921	Seq. ID	OJ990319_02.9819.C46
Gene No.	61724	Strand	-
Start	461	End	1387
Name	OJ990319_02.9819.C46.o1.np	Method	AAT/NAP
Start	913	End	1367
GI	4126693	Score	630
Exons	913..1367		
GI Descrip.	(AB016504) prolamin [Oryza sativa] gi 6180118 gb AAF05813.1 AF194115_1 (AF194115) prolamin 7 [Oryza sativa]		
Seq. No.	29922	Seq. ID	OJ990319_02.9819.C49
Gene No.	61725	Strand	+
Start	747	End	1001
Name	OJ990319_02.9819.C49.o1.np	Method	AAT/NAP
Start	747	End	1001
GI	6016698	Score	81
Exons	747..799, 895..1001		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29922	Seq. ID	OJ990319_02.9819.C49
Gene No.	61725	Strand	+
Start	747	End	1001
Name	OJ990319_02.9819.C49.o1.gs	Method	GENSCAN
Start	842	End	933
GI	none	Score	.57
Exons	842..933		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61726	Strand	+
Start	1	End	687
Name	OJ990319_02.9819.C50.o1.np	Method	AAT/NAP
Start	1	End	672
GI	6016698	Score	664
Exons	1..672		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61726	Strand	+
Start	1	End	687
Name	OJ990319_02.9819.C50.o1.gs	Method	GENSCAN
Start	76	End	687

GI	none	Score	.42
Exons	76..687		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61727	Strand	-
Start	446	End	814
Name	OJ990319_02.9819.C50.o1.tm	Method	TBLASTX:Maize
Start	90	End	357
GI	none	Score	315
Exons	90..272, 97..357		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61727	Strand	-
Start	446	End	814
Name	OJ990319_02.9819.C50.o1.tc	Method	TBLASTX:Cress
Start	103	End	429
GI	none	Score	100
Exons	103..234, 156..236, 234..272, 235..429, 345..422		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61727	Strand	-
Start	446	End	814
Name	OJ990319_02.9819.C50.o1.ts	Method	TBLASTX:Soybean
Start	345	End	573
GI	none	Score	253
Exons	345..503, 346..573		
Seq. No.	29923	Seq. ID	OJ990319_02.9819.C50
Gene No.	61727	Strand	-
Start	446	End	814
Name	OJ990319_02.9819.C50.o1.gp	Method	AAT/GAP
Start	446	End	814
GI	uC-osrocyp017g09a1	Score	702
Exons	446..814		
GI Descrip.	'6016698/gb AAF01525.1 AC009991_21 2.0e-12 (AC009991) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	29924	Seq. ID	OJ990319_02.9819.C52
Gene No.	61728	Strand	+
Start	1	End	623
Name	OJ990319_02.9819.C52.o1.np	Method	AAT/NAP
Start	1	End	623
GI	6016698	Score	403
Exons	1..434, 536..623		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29924	Seq. ID	OJ990319_02.9819.C52
Gene No.	61728	Strand	+
Start	1	End	623
Name	OJ990319_02.9819.C52.o1.gs	Method	GENSCAN
Start	139	End	481
GI	none	Score	.99
Exons	139..481		
Seq. No.	29924	Seq. ID	OJ990319_02.9819.C52
Gene No.	61728	Strand	+
Start	1	End	623



Name	OJ990319_02.9819.C52.o1.ts	Method	TBLASTX:Soybean
Start	199	End	427
GI	none	Score	232
Exons	199..414, 206..427		
Seq. No.	29925	Seq. ID	OJ990319_02.9819.C54
Gene No.	61729	Strand	-
Start	367	End	573
Name	OJ990319_02.9819.C54.o1.gs	Method	GENSCAN
Start	367	End	573
GI	none	Score	.49
Exons	367..573		
Seq. No.	29926	Seq. ID	OJ990319_02.9819.C55
Gene No.	61730	Strand	+
Start	125	End	2815
Name	OJ990319_02.9819.C55.o1.gs	Method	GENSCAN
Start	125	End	2762
GI	none	Score	.65
Exons	125..444, 480..757, 873..1057, 1112..1425, 1443..1700, 1727..2029, 2149..2423, 2498..2762		
Seq. No.	29926	Seq. ID	OJ990319_02.9819.C55
Gene No.	61730	Strand	+
Start	125	End	2815
Name	OJ990319_02.9819.C55.o1.np	Method	AAT/NAP
Start	571	End	2815
GI	6498441	Score	1714
Exons	571..1605, 1932..2380, 2444..2815		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	29926	Seq. ID	OJ990319_02.9819.C55
Gene No.	61730	Strand	+
Start	125	End	2815
Name	OJ990319_02.9819.C55.o2.tw	Method	TBLASTX:Wheat
Start	767	End	1075
GI	none	Score	46
Exons	767..805, 771..809, 823..1029, 824..1033, 839..1075, 844..1041		
Seq. No.	29926	Seq. ID	OJ990319_02.9819.C55
Gene No.	61730	Strand	+
Start	125	End	2815
Name	OJ990319_02.9819.C55.o1.tw	Method	TBLASTX:Wheat
Start	1814	End	2576
GI	none	Score	229
Exons	1814..1951, 1815..2147, 2009..2164, 2140..2328, 2144..2344, 2318..2572, 2370..2576, 2407..2571		
Seq. No.	29926	Seq. ID	OJ990319_02.9819.C55
Gene No.	61730	Strand	+
Start	125	End	2815
Name	OJ990319_02.9819.C55.o3.tw	Method	TBLASTX:Wheat
Start	2579	End	2760
GI	none	Score	61
Exons	2579..2638, 2629..2760, 2652..2759		

Seq. No.	29927	Seq. ID	OJ990319_02.9819.C57
Gene No.	61731	Strand	-
Start	1218	End	1415
Name	OJ990319_02.9819.C57.o1.gs	Method	GENSCAN
Start	1218	End	1415
GI	none	Score	.58
Exons	1218..1415		
Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61732	Strand	+
Start	58	End	5393
Name	OJ990319_02.9819.C58.o1.gs	Method	GENSCAN
Start	58	End	5393
GI	none	Score	.78
Exons	58..216, 1250..1434, 1945..2019, 2696..2765, 2993..3131, 3218..3275, 4023..4065, 4231..4279, 4548..5393		
Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61732	Strand	+
Start	58	End	5393
Name	OJ990319_02.9819.C58.o1.gp	Method	AAT/GAP
Start	2690	End	3051
GI	102_14.R1084	Score	392
Exons	2690..2871, 2993..3051		
GI Descrip.	'5822826/dbj AB028602.1 AB028602 1.0e-101 Oryza sativa D1 gene for alpha-subunit of GTP-binding protein, wild type, partial sequence'		
Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61732	Strand	+
Start	58	End	5393
Name	OJ990319_02.9819.C58.o1.np	Method	AAT/NAP
Start	3034	End	5390
GI	4490747	Score	1380
Exons	3034..3131, 3218..3275, 4023..4065, 4231..4279, 4377..4451, 4539..5390		
GI Descrip.	(AL035708) DnaJ-like protein [Arabidopsis thaliana]		
Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o2.tm	Method	TBLASTX:Maize
Start	3217	End	4922
GI	none	Score	87
Exons	3217..3273, 3218..3274, 4022..4066, 4022..4069, 4229..4282, 4230..4280, 4232..4282, 4355..4459, 4374..4457, 4375..4458, 4375..4461, 4547..4588, 4548..4589, 4549..4629, 4549..4656, 4619..4810, 4620..4751, 4866..4889, 4887..4922		
Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o1.ts	Method	TBLASTX:Soybean
Start	3218	End	4997
GI	none	Score	78
Exons	3218..3274, 4022..4066, 4228..4281, 4229..4282, 4374..4457,		

4375..4449, 4376..4459, 4536..4589, 4620..4751, 4628..4963,  
4641..4970, 4793..4966, 4815..4970, 4851..4889, 4887..4964,  
4974..4997

Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o1.tm	Method	TBLASTX:Maize
Start	4958	End	5593
GI	none	Score	701
Exons	4958..5299, 4960..5394, 4962..5393, 5084..5395, 5380..5457, 5381..5458, 5402..5461, 5537..5593, 5540..5563		

Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o2.ts	Method	TBLASTX:Soybean
Start	4971	End	5228
GI	none	Score	129
Exons	4971..5147, 4997..5065, 5132..5227, 5133..5228		

Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o1.tc	Method	TBLASTX:Cress
Start	5130	End	5384
GI	none	Score	150
Exons	5130..5240, 5132..5239, 5235..5384, 5237..5299		

Seq. No.	29928	Seq. ID	OJ990319_02.9819.C58
Gene No.	61733	Strand	-
Start	5339	End	5820
Name	OJ990319_02.9819.C58.o2.gp	Method	AAT/GAP
Start	5339	End	5820
GI	uC-osflcyp130f11a1	Score	943
Exons	5339..5820		
GI Descrip.	'606418/gb L35844 RICRGA 1.0e-151 Oryza Sativa (clone RGAE8) G protein alpha subunit (RGA1) gene, complete cds'		

Seq. No.	29929	Seq. ID	OJ990319_02.9819.C59
Gene No.	61734	Strand	+
Start	477	End	3229
Name	OJ990319_02.9819.C59.o1.gs	Method	GENSCAN
Start	477	End	3183
GI	none	Score	.52
Exons	477..738, 1544..1839, 3064..3183		

Seq. No.	29929	Seq. ID	OJ990319_02.9819.C59
Gene No.	61734	Strand	+
Start	477	End	3229
Name	OJ990319_02.9819.C59.o3.np	Method	AAT/NAP
Start	1325	End	3229
GI	6523547	Score	178
Exons	1325..1390, 1537..1861, 2699..3229		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	29929	Seq. ID	OJ990319_02.9819.C59
Gene No.	61734	Strand	+
Start	477	End	3229
Name	OJ990319_02.9819.C59.o1.gp	Method	AAT/GAP
Start	1565	End	1841
GI	LIB3431-028-P1-K1-C3	Score	503
Exons	1565..1841		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	29929	Seq. ID	OJ990319_02.9819.C59
Gene No.	61735	Strand	-
Start	1	End	1396
Name	OJ990319_02.9819.C59.o1.np	Method	AAT/NAP
Start	1	End	1147
GI	6523547	Score	43
Exons	1..41, 504..694, 864..1147		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	29929	Seq. ID	OJ990319_02.9819.C59
Gene No.	61735	Strand	-
Start	1	End	1396
Name	OJ990319_02.9819.C59.o2.np	Method	AAT/NAP
Start	1	End	1396
GI	5852180	Score	193
Exons	1..83, 1100..1396		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29930	Seq. ID	OJ990319_02.9819.C60
Gene No.	61736	Strand	+
Start	506	End	601
Name	OJ990319_02.9819.C60.o1.gs	Method	GENSCAN
Start	506	End	601
GI	none	Score	.93
Exons	506..601		

Seq. No.	29931	Seq. ID	OJ990319_02.9819.C61
Gene No.	61737	Strand	-
Start	838	End	5537
Name	OJ990319_02.9819.C61.o1.np	Method	AAT/NAP
Start	838	End	5537
GI	5803259	Score	651
Exons	838..1605, 1711..1826, 1941..2275, 5445..5537		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	29931	Seq. ID	OJ990319_02.9819.C61
Gene No.	61738	Strand	-
Start	5605	End	6141
Name	OJ990319_02.9819.C61.o2.np	Method	AAT/NAP
Start	5605	End	6141
GI	5852179	Score	464
Exons	5605..5844, 5919..6141		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	29931	Seq. ID	OJ990319_02.9819.C61
Gene No.	61739	Strand	-

Start	6794	End	7025
Name	OJ990319_02.9819.C61.o1.gp		Method AAT/GAP
Start	6794	End	7025
GI	61605_3.R1084	Score	216
Exons	6794..6928, 6994..7025		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29932	Seq. ID	OJ990319_02.9819.C62
Gene No.	61740	Strand	+
Start	1	End	903
Name	OJ990319_02.9819.C62.o1.np	Method	AAT/NAP
Start	1	End	903
GI	6063554	Score	231
Exons	1..108, 728..903		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29932	Seq. ID	OJ990319_02.9819.C62
Gene No.	61741	Strand	-
Start	1	End	1971
Name	OJ990319_02.9819.C62.o2.np	Method	AAT/NAP
Start	1	End	1971
GI	4680179	Score	464
Exons	1..143, 1592..1971		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29932	Seq. ID	OJ990319_02.9819.C62
Gene No.	61741	Strand	-
Start	1	End	1971
Name	OJ990319_02.9819.C62.o1.gp	Method	AAT/GAP
Start	1271	End	1528
GI	61605_3.R1084	Score	438
Exons	1271..1528		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	29932	Seq. ID	OJ990319_02.9819.C62
Gene No.	61741	Strand	-
Start	1	End	1971
Name	OJ990319_02.9819.C62.o1.ts	Method	TBLASTX:Soybean
Start	1592	End	1795
GI	none	Score	84
Exons	1592..1759, 1616..1759, 1751..1795, 1763..1795		

Seq. No.	29932	Seq. ID	OJ990319_02.9819.C62
Gene No.	61741	Strand	-
Start	1	End	1971
Name	OJ990319_02.9819.C62.o1.tw	Method	TBLASTX:Wheat
Start	1656	End	1858
GI	none	Score	76
Exons	1656..1856, 1657..1791, 1661..1852, 1661..1858		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61742	Strand	+
Start	2220	End	2275

Name	OJ990319_02.9819.C63.o1.gp	Method	AAT/GAP
Start	2220	End	2275
GI	3106943	Score	87
Exons	2220..2275		
GI Descrip.	1019378/dbj D17785 RICNH4621 1.0e-104 Rice DNA for U3 small nuclear RNA, partial sequence		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o1.np	Method	AAT/NAP
Start	1	End	1717
GI	4680179	Score	2678
Exons	1..1717		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o1.gs	Method	GENSCAN
Start	30	End	2247
GI	none	Score	.81
Exons	30..274, 290..426, 664..1717, 2103..2247		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o1.tw	Method	TBLASTX:Wheat
Start	293	End	715
GI	none	Score	101
Exons	293..484, 300..455, 366..506, 506..715, 567..665		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o2.tw	Method	TBLASTX:Wheat
Start	992	End	1273
GI	none	Score	100
Exons	992..1087, 1058..1273, 1146..1262		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o3.tw	Method	TBLASTX:Wheat
Start	1274	End	1466
GI	none	Score	109
Exons	1274..1444, 1284..1466		

Seq. No.	29933	Seq. ID	OJ990319_02.9819.C63
Gene No.	61743	Strand	-
Start	1	End	2247
Name	OJ990319_02.9819.C63.o2.np	Method	AAT/NAP
Start	1972	End	2219
GI	5042448	Score	212
Exons	1972..2219		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	29934	Seq. ID	OJ990319_02.9819.C64
Gene No.	61744	Strand	+
Start	833	End	1324
Name	OJ990319_02.9819.C64.o1.gs	Method	GENSCAN
Start	833	End	1324
GI	none	Score	.51
Exons	833..1085, 1178..1324		

Seq. No.	29935	Seq. ID	OJ990319_02.9819.C65
Gene No.	61745	Strand	+
Start	1088	End	1323
Name	OJ990319_02.9819.C65.o1.gs	Method	GENSCAN
Start	1088	End	1323
GI	none	Score	.41
Exons	1088..1323		

Seq. No.	29935	Seq. ID	OJ990319_02.9819.C65
Gene No.	61746	Strand	+
Start	1398	End	1697
Name	OJ990319_02.9819.C65.o1.tm	Method	TBLASTX:Maize
Start	1103	End	1613
GI	none	Score	93
Exons	1103..1201, 1107..1205, 1107..1202, 1108..1206, 1196..1222, 1198..1224, 1200..1244, 1200..1241, 1247..1285, 1278..1334, 1279..1335, 1280..1342, 1389..1613, 1391..1612		

Seq. No.	29935	Seq. ID	OJ990319_02.9819.C65
Gene No.	61746	Strand	+
Start	1398	End	1697
Name	OJ990319_02.9819.C65.o1.ts	Method	TBLASTX:Soybean
Start	1392	End	1613
GI	none	Score	234
Exons	1392..1613, 1394..1606		

Seq. No.	29935	Seq. ID	OJ990319_02.9819.C65
Gene No.	61746	Strand	+
Start	1398	End	1697
Name	OJ990319_02.9819.C65.o1.np	Method	AAT/NAP
Start	1398	End	1697
GI	1777312	Score	260
Exons	1398..1697		
GI Descrip.	(D30622) novel serine/threonine protein kinase [Arabidopsis thaliana]		

Seq. No.	29935	Seq. ID	OJ990319_02.9819.C65
Gene No.	61746	Strand	+
Start	1398	End	1697
Name	OJ990319_02.9819.C65.o1.tc	Method	TBLASTX:Cress
Start	1398	End	1613
GI	none	Score	211
Exons	1398..1613, 1401..1613		

Seq. No.	29936	Seq. ID	OJ990319_02.9819.C66
Gene No.	61747	Strand	+
Start	1	End	645
Name	OJ990319_02.9819.C66.o1.np	Method	AAT/NAP

Start	1	End	645
GI	2246625	Score	454
Exons	1..645		
GI Descrip.	(AF004947) protein kinase [Oryza sativa]		

Seq. No.	29936	Seq. ID	OJ990319_02.9819.C66
Gene No.	61748	Strand	+
Start	2441	End	2672
Name	OJ990319_02.9819.C66.o1.tc	Method	TBLASTX:Cress
Start	37	End	635
GI	none	Score	91
Exons	37..138, 241..441, 261..401, 496..633, 498..635		

Seq. No.	29936	Seq. ID	OJ990319_02.9819.C66
Gene No.	61748	Strand	+
Start	2441	End	2672
Name	OJ990319_02.9819.C66.o1.tm	Method	TBLASTX:Maize
Start	37	End	663
GI	none	Score	103
Exons	37..141, 238..663, 243..641		

Seq. No.	29936	Seq. ID	OJ990319_02.9819.C66
Gene No.	61748	Strand	+
Start	2441	End	2672
Name	OJ990319_02.9819.C66.o1.ts	Method	TBLASTX:Soybean
Start	37	End	669
GI	none	Score	105
Exons	37..141, 55..129, 234..404, 235..669, 459..641, 475..669		

Seq. No.	29936	Seq. ID	OJ990319_02.9819.C66
Gene No.	61748	Strand	+
Start	2441	End	2672
Name	OJ990319_02.9819.C66.o2.gs	Method	GENSCAN
Start	2441	End	2672
GI	none	Score	.59
Exons	2441..2446, 2523..2672		

Seq. No.	29937	Seq. ID	OJ990319_02.9819.C67
Gene No.	61749	Strand	+
Start	464	End	1071
Name	OJ990319_02.9819.C67.o1.gs	Method	GENSCAN
Start	464	End	1071
GI	none	Score	.67
Exons	464..508, 993..1071		

Seq. No.	29938	Seq. ID	OJ990319_02.9819.C69
Gene No.	61750	Strand	-
Start	370	End	616
Name	OJ990319_02.9819.C69.o1.gs	Method	GENSCAN
Start	370	End	616
GI	none	Score	.58
Exons	370..461, 613..616		

Seq. No.	29939	Seq. ID	OJ990319_02.9819.C71
Gene No.	61751	Strand	-
Start	523	End	772
Name	OJ990319_02.9819.C71.o1.gs	Method	GENSCAN



Start 523  
 GI none  
 Exons 523..680, 769..772

End 772  
 Score .5

Seq. No. 29940  
 Gene No. 61752  
 Start 89  
 Name OJ990319\_02.9819.C72.o1.gp  
 Start 89  
 GI 2798358  
 Exons 89..150

Seq. ID OJ990319\_02.9819.C72  
 Strand +  
 End 150  
 Method AAT/GAP  
 End 150  
 Score 94

Seq. No. 29941  
 Gene No. 61753  
 Start 135  
 Name OJ990319\_02.9819.C74.o1.gs  
 Start 135  
 GI none  
 Exons 135..201

Seq. ID OJ990319\_02.9819.C74  
 Strand -  
 End 201  
 Method GENSCAN  
 End 201  
 Score .56

Seq. No. 29942  
 Gene No. 61754  
 Start 1  
 Name OJ990319\_02.9819.C75.o1.np  
 Start 1  
 GI 4490747  
 Exons 1..21, 155..235, 333..381, 547..592, 727..764  
 GI Descrip. (AL035708) DnaJ-like protein [Arabidopsis thaliana]

Seq. ID OJ990319\_02.9819.C75  
 Strand -  
 End 764  
 Method AAT/NAP  
 End 764  
 Score 144

Seq. No. 29942  
 Gene No. 61754  
 Start 1  
 Name OJ990319\_02.9819.C75.o1.tm  
 Start 151  
 GI none  
 Exons 151..237, 153..257, 154..237, 332..382, 543..590, 546..590

Seq. ID OJ990319\_02.9819.C75  
 Strand -  
 End 764  
 Method TBLASTX:Maize  
 End 590  
 Score 119

Seq. No. 29942  
 Gene No. 61754  
 Start 1  
 Name OJ990319\_02.9819.C75.o1.gs  
 Start 333  
 GI none  
 Exons 333..381, 547..589

Seq. ID OJ990319\_02.9819.C75  
 Strand -  
 End 764  
 Method GENSCAN  
 End 589  
 Score .91

Seq. No. 29943  
 Gene No. 61755  
 Start 836  
 Name OJ990319\_02.9819.C76.o1.gs  
 Start 836  
 GI none  
 Exons 836..906, 1139..1277

Seq. ID OJ990319\_02.9819.C76  
 Strand -  
 End 1277  
 Method GENSCAN  
 End 1277  
 Score .55

Seq. No. 29944  
 Gene No. 61756  
 Start 341

Seq. ID OJ990319\_02.9819.C77  
 Strand +  
 End 791

Name OJ990319\_02.9819.C77.o1.gs  
 Start 341  
 GI none  
 Exons 341..502, 765..791

Method GENSCAN  
 End 791  
 Score .7

Seq. No. 29945  
 Gene No. 61757  
 Start 1268  
 Name OJ990319\_02.9819.C78.o1.gs  
 Start 1268  
 GI none  
 Exons 1268..1415

Seq. ID OJ990319\_02.9819.C78  
 Strand +  
 End 1415  
 Method GENSCAN  
 End 1415  
 Score .59

Seq. No. 29946  
 Gene No. 61758  
 Start 926  
 Name OJ990319\_02.9819.C79.o1.np  
 Start 926  
 GI 3128199  
 Exons 926..1059, 1435..1603, 1987..2077  
 GI Descrip. (AC004521) unknown protein [Arabidopsis thaliana]

Seq. ID OJ990319\_02.9819.C79  
 Strand +  
 End 2107  
 Method AAT/NAP  
 End 2077  
 Score 79

Seq. No. 29946  
 Gene No. 61758  
 Start 926  
 Name OJ990319\_02.9819.C79.o1.gs  
 Start 1484  
 GI none  
 Exons 1484..1537, 1987..2107

Seq. ID OJ990319\_02.9819.C79  
 Strand +  
 End 2107  
 Method GENSCAN  
 End 2107  
 Score .56

Seq. No. 29947  
 Gene No. 61759  
 Start 329  
 Name OJ990319\_02.9819.C80.o1.gs  
 Start 329  
 GI none  
 Exons 329..538, 561..776

Seq. ID OJ990319\_02.9819.C80  
 Strand +  
 End 776  
 Method GENSCAN  
 End 776  
 Score .8

Seq. No. 29947  
 Gene No. 61760  
 Start 1944  
 Name OJ990319\_02.9819.C80.o1.np  
 Start 1944  
 GI 3451062  
 Exons 1944..2080, 3170..3206  
 GI Descrip. (AL031326) putative protein [Arabidopsis thaliana]

Seq. ID OJ990319\_02.9819.C80  
 Strand +  
 End 3206  
 Method AAT/NAP  
 End 3206  
 Score 36

Seq. No. 29948  
 Gene No. 61761  
 Start 208  
 Name OJ990319\_02.9819.C81.o1.gs  
 Start 208  
 GI none  
 Exons 208..396

Seq. ID OJ990319\_02.9819.C81  
 Strand +  
 End 396  
 Method GENSCAN  
 End 396  
 Score .81

Seq. No. 29948  
 Gene No. 61762  
 Seq. ID OJ990319\_02.9819.C81  
 Strand -

Start	1278	End	4082
Name	OJ990319_02.9819.C81.o1.gp	Method	AAT/GAP
Start	989	End	3456
GI	102.1.R1084	Score	1994
Exons	989..1443, 1608..1687, 1765..1824, 1911..2004, 2081..2215, 2395..2450, 3153..3254, 3338..3456		
GI Descrip.	'1346104/sp P49083 GBA1_ORYSA 0.0e+00 GUANINE NUCLEOTIDE-BINDING PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1) >gi_540533_dbj_BAA07405_ (D38232) G protein alpha subunit [Oryza sativa]'		

Seq. No.	29948	Seq. ID	OJ990319_02.9819.C81
Gene No.	61762	Strand	-
Start	1278	End	4082
Name	OJ990319_02.9819.C81.o2.tm	Method	TBLASTX:Maize
Start	1148	End	1443
GI	none	Score	54
Exons	1148..1225, 1150..1260, 1214..1261, 1216..1248, 1272..1442, 1273..1443, 1273..1443		

Seq. No.	29948	Seq. ID	OJ990319_02.9819.C81
Gene No.	61762	Strand	-
Start	1278	End	4082
Name	OJ990319_02.9819.C81.o2.gs	Method	GENSCAN
Start	1278	End	3472
GI	none	Score	.69
Exons	1278..1443, 2081..2215, 2395..2450, 3153..3254, 3338..3472		

Seq. No.	29948	Seq. ID	OJ990319_02.9819.C81
Gene No.	61762	Strand	-
Start	1278	End	4082
Name	OJ990319_02.9819.C81.o1.np	Method	AAT/NAP
Start	1281	End	4082
GI	1346104	Score	1150
Exons	1281..1443, 1608..1687, 1765..1824, 1911..2004, 2081..2215, 2395..2450, 3153..3254, 3338..3453, 3975..4082		

GI Descrip.	GUANINE NUCLEOTIDE-BINDING PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1) gi 540533 dbj BAA07405  (D38232) G protein alpha subunit [Oryza sativa]		
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Seq. No.	29948	Seq. ID	OJ990319_02.9819.C81
Gene No.	61762	Strand	-
Start	1278	End	4082
Name	OJ990319_02.9819.C81.o1.tc	Method	TBLASTX:Cress
Start	1296	End	3442
GI	none	Score	156
Exons	1296..1448, 1300..1443, 1308..1448, 1321..1449, 1588..1686, 1602..1688, 1606..1686, 1607..1687, 1747..1827, 1775..1825, 1910..1987, 1911..2003, 1911..2003, 2065..2214, 2075..2218, 2080..2217, 2395..2451, 2397..2453, 3152..3256, 3153..3272, 3153..3254, 3338..3442		

Seq. No.	29948	Seq. ID	OJ990319_02.9819.C81
Gene No.	61762	Strand	-
Start	1278	End	4082
Name	OJ990319_02.9819.C81.o1.ts	Method	TBLASTX:Soybean
Start	1296	End	3451
GI	none	Score	165

Exons 1296..1448, 1297..1443, 1598..1675, 1602..1691, 1606..1668, 1607..1687, 1747..1827, 1763..1825, 1911..2003, 1913..2002, 2065..2217, 2075..2218, 2080..2217, 2397..2453, 3153..3278, 3153..3254, 3338..3451, 3338..3451

Seq. No. 29948 Seq. ID OJ990319\_02.9819.C81  
Gene No. 61762 Strand -  
Start 1278 End 4082  
Name OJ990319\_02.9819.C81.ol.tm Method TBLASTX:Maize  
Start 1631 End 3451  
GI none Score 106  
Exons 1631..1687, 1632..1691, 1747..1827, 1763..1825, 1764..1841, 1764..1829, 1911..2003, 1911..2003, 1912..2007, 2071..2214, 2075..2218, 2078..2206, 2080..2217, 2346..2453, 2395..2451, 2397..2453, 3151..3279, 3153..3254, 3336..3449, 3337..3450, 3338..3451

Seq. No. 29949 Seq. ID OJ990319\_02.9819.C82  
Gene No. 61763 Strand -  
Start 1 End 1756  
Name OJ990319\_02.9819.C82.ol.np Method AAT/NAP  
Start 1 End 1642  
GI 862310 Score 538  
Exons 1..170, 725..802, 951..1040, 1122..1159, 1409..1481, 1580..1642  
GI Descrip. (L28001) G protein alpha-subunit [Oryza sativa]

Seq. No. 29949 Seq. ID OJ990319\_02.9819.C82  
Gene No. 61763 Strand -  
Start 1 End 1756  
Name OJ990319\_02.9819.C82.ol.gp Method AAT/GAP  
Start 83 End 1756  
GI 102 1.R1084 Score 934  
Exons 83..170, 725..802, 951..1040, 1122..1159, 1409..1481, 1580..1756  
GI Descrip. '1346104/sp|P49083|GBA1\_ORYSA 0.0e+00 GUANINE NUCLEOTIDE-BINDING PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1) >gi\_540533\_dbj\_BAA07405\_(D38232) G protein alpha subunit [Oryza sativa]'

Seq. No. 29949 Seq. ID OJ990319\_02.9819.C82  
Gene No. 61763 Strand -  
Start 1 End 1756  
Name OJ990319\_02.9819.C82.ol.ts Method TBLASTX:Soybean  
Start 84 End 1647  
GI none Score 85  
Exons 84..176, 723..800, 725..805, 924..1055, 929..1024, 931..1044, 1119..1160, 1123..1161, 1407..1484, 1408..1479, 1585..1647

Seq. No. 29949 Seq. ID OJ990319\_02.9819.C82  
Gene No. 61763 Strand -  
Start 1 End 1756  
Name OJ990319\_02.9819.C82.ol.gs Method GENSCAN  
Start 88 End 1642  
GI none Score .82  
Exons 88..197, 725..802, 932..1040, 1122..1159, 1580..1642

Seq. No. 29950 Seq. ID OJ990319\_02.9819.C85  
Gene No. 61764 Strand -  
Start 88 End 418

Name	OJ990319_02.9819.C85.o1.gs	Method	GENSCAN
Start	88	End	418
GI	none	Score	.99
Exons	88..212, 358..418		
Seq. No.	29951	Seq. ID	OJ990319_02.9819.C87
Gene No.	61765	Strand	-
Start	342	End	746
Name	OJ990319_02.9819.C87.o1.gp	Method	AAT/GAP
Start	342	End	746
GI	2799029	Score	454
Exons	342..362, 466..746		
GI Descrip.	2827318 1.0e-20 (AF042201) seed prolamine [Oryza sativa]		
Seq. No.	29951	Seq. ID	OJ990319_02.9819.C87
Gene No.	61765	Strand	-
Start	342	End	746
Name	OJ990319_02.9819.C87.o2.gp	Method	AAT/GAP
Start	466	End	746
GI	2799029	Score	451
Exons	466..746		
GI Descrip.	2827318 1.0e-20 (AF042201) seed prolamine [Oryza sativa]		
Seq. No.	29951	Seq. ID	OJ990319_02.9819.C87
Gene No.	61765	Strand	-
Start	342	End	746
Name	OJ990319_02.9819.C87.o1.np	Method	AAT/NAP
Start	580	End	746
GI	1842176	Score	178
Exons	580..746		
GI Descrip.	(D73383) prolamin [Oryza sativa]		
Seq. No.	29952	Seq. ID	OJ990319_02.9819.C90
Gene No.	61766	Strand	+
Start	345	End	741
Name	OJ990319_02.9819.C90.o1.gs	Method	GENSCAN
Start	345	End	741
GI	none	Score	.58
Exons	345..741		
Seq. No.	29953	Seq. ID	OJ990319_02.9819.C92
Gene No.	61767	Strand	-
Start	756	End	956
Name	OJ990319_02.9819.C92.o1.gp	Method	AAT/GAP
Start	756	End	956
GI	2442705	Score	377
Exons	756..956		
Seq. No.	29953	Seq. ID	OJ990319_02.9819.C92
Gene No.	61768	Strand	-
Start	2645	End	3046
Name	OJ990319_02.9819.C92.o2.gs	Method	GENSCAN
Start	2645	End	3046
GI	none	Score	.62
Exons	2645..2931, 2956..3046		
Seq. No.	29954	Seq. ID	OJ990319_02.9819.C93

Gene No.	61769	Strand	+
Start	274	End	752
Name	OJ990319_02.9819.C93.ol.gs	Method	GENSCAN
Start	274	End	752
GI	none	Score	.96
Exons	274..752		
Seq. No.	29954	Seq. ID	OJ990319_02.9819.C93
Gene No.	61770	Strand	+
Start	2109	End	2874
Name	OJ990319_02.9819.C93.ol.tw	Method	TBLASTX:Wheat
Start	290	End	677
GI	none	Score	137
Exons	290..373, 291..434, 336..386, 399..458, 450..536, 466..534, 606..677, 641..676		
Seq. No.	29954	Seq. ID	OJ990319_02.9819.C93
Gene No.	61770	Strand	+
Start	2109	End	2874
Name	OJ990319_02.9819.C93.ol.np	Method	AAT/NAP
Start	2109	End	2874
GI	4680183	Score	191
Exons	2109..2179, 2785..2874		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	29955	Seq. ID	OJ990319_02.9819.C95
Gene No.	61771	Strand	+
Start	1	End	1715
Name	OJ990319_02.9819.C95.ol.np	Method	AAT/NAP
Start	1	End	1715
GI	6498441	Score	1029
Exons	1..232, 296..659, 843..976, 1151..1715		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	29955	Seq. ID	OJ990319_02.9819.C95
Gene No.	61771	Strand	+
Start	1	End	1715
Name	OJ990319_02.9819.C95.ol.gs	Method	GENSCAN
Start	120	End	1607
GI	none	Score	.63
Exons	120..275, 350..659, 851..987, 1275..1607		
Seq. No.	29955	Seq. ID	OJ990319_02.9819.C95
Gene No.	61771	Strand	+
Start	1	End	1715
Name	OJ990319_02.9819.C95.ol.tw	Method	TBLASTX:Wheat
Start	304	End	756
GI	none	Score	183
Exons	304..483, 305..490, 481..756, 504..755		
Seq. No.	29955	Seq. ID	OJ990319_02.9819.C95
Gene No.	61771	Strand	+
Start	1	End	1715
Name	OJ990319_02.9819.C95.ol.tm	Method	TBLASTX:Maize
Start	495	End	780

GI none  
Exons 495..770, 496..780

Score 327

Seq. No. 29955  
Gene No. 61771  
Start 1  
Name OJ990319\_02.9819.C95.o2.tm  
Start 852  
GI none  
Exons 852..1013, 857..1018, 1002..1085, 1018..1086, 1080..1190

Seq. ID OJ990319\_02.9819.C95  
Strand +  
End 1715  
Method TBLASTX:Maize  
End 1190  
Score 164

Seq. No. 29955  
Gene No. 61771  
Start 1  
Name OJ990319\_02.9819.C95.o2.tw  
Start 867  
GI none  
Exons 867..1016, 869..1018, 1014..1085, 1015..1095, 1077..1265, 1103..1264

Seq. ID OJ990319\_02.9819.C95  
Strand +  
End 1715  
Method TBLASTX:Wheat  
End 1265  
Score 185

Seq. No. 29955  
Gene No. 61771  
Start 1  
Name OJ990319\_02.9819.C95.o1.ts  
Start 942  
GI none  
Exons 942..1016, 1015..1086, 1083..1265, 1262..1333

Seq. ID OJ990319\_02.9819.C95  
Strand +  
End 1715  
Method TBLASTX:Soybean  
End 1333  
Score 88

Seq. No. 29956  
Gene No. 61772  
Start 667  
Name OJ990319\_02.9819.C96.o2.tw  
Start 117  
GI none  
Exons 117..341, 185..361, 414..566, 425..562

Seq. ID OJ990319\_02.9819.C96  
Strand +  
End 1534  
Method TBLASTX:Wheat  
End 566  
Score 211

Seq. No. 29956  
Gene No. 61772  
Start 667  
Name OJ990319\_02.9819.C96.o1.ts  
Start 240  
GI none  
Exons 240..329, 414..656

Seq. ID OJ990319\_02.9819.C96  
Strand +  
End 1534  
Method TBLASTX:Soybean  
End 656  
Score 78

Seq. No. 29956  
Gene No. 61772  
Start 667  
Name OJ990319\_02.9819.C96.o3.tw  
Start 665  
GI none  
Exons 665..727, 669..728, 719..895, 727..909

Seq. ID OJ990319\_02.9819.C96  
Strand +  
End 1534  
Method TBLASTX:Wheat  
End 909  
Score 97

Seq. No. 29956  
Gene No. 61772  
Start 667  
Name OJ990319\_02.9819.C96.o1.np  
Start 667

Seq. ID OJ990319\_02.9819.C96  
Strand +  
End 1534  
Method AAT/NAP  
End 1534

GI 6498441 Score 1054  
 Exons 667..1159, 1253..1534  
 GI Descrip. (AF000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 29956 Seq. ID OJ990319\_02.9819.C96  
 Gene No. 61772 Strand +  
 Start 667 End 1534  
 Name OJ990319\_02.9819.C96.o1.tw Method TBLASTX:Wheat  
 Start 916 End 1525  
 GI none Score 66  
 Exons 916..1026, 926..1369, 927..965, 949..1026, 1066..1164, 1400..1525

Seq. No. 29957 Seq. ID OJ990319\_02.9819.C97  
 Gene No. 61773 Strand +  
 Start 524 End 784  
 Name OJ990319\_02.9819.C97.o1.gs Method GENSCAN  
 Start 524 End 784  
 GI none Score .89  
 Exons 524..653, 750..784

Seq. No. 29958 Seq. ID OJ990319\_02.9819.C98  
 Gene No. 61774 Strand +  
 Start 1 End 1632  
 Name OJ990319\_02.9819.C98.o1.np Method AAT/NAP  
 Start 1 End 479  
 GI 5732076 Score 300  
 Exons 1..275, 395..479  
 GI Descrip. (AF162444) contains similarity to Pfam family PF00070 - Pyridine nucleotide-disulphide oxidoreductase class-I; score=26.1, E=0.0008, N=1 [Arabidopsis thaliana]

Seq. No. 29958 Seq. ID OJ990319\_02.9819.C98  
 Gene No. 61774 Strand +  
 Start 1 End 1632  
 Name OJ990319\_02.9819.C98.o1.tc Method TBLASTX:Cress  
 Start 142 End 500  
 GI none Score 186  
 Exons 142..273, 152..274, 156..275, 157..288, 356..472, 366..476, 369..500

Seq. No. 29958 Seq. ID OJ990319\_02.9819.C98  
 Gene No. 61774 Strand +  
 Start 1 End 1632  
 Name OJ990319\_02.9819.C98.o1.ts Method TBLASTX:Soybean  
 Start 142 End 488  
 GI none Score 218  
 Exons 142..273, 156..275, 359..475, 367..486, 369..488

Seq. No. 29958 Seq. ID OJ990319\_02.9819.C98  
 Gene No. 61774 Strand +  
 Start 1 End 1632  
 Name OJ990319\_02.9819.C98.o1.gs Method GENSCAN  
 Start 156 End 1632  
 GI none Score .66



Exons 156..393, 1187..1310, 1495..1632

Seq. No.	29958	Seq. ID	OJ990319_02.9819.C98
Gene No.	61774	Strand	+
Start	1	End	1632
Name	OJ990319_02.9819.C98.o1.gp	Method	AAT/GAP
Start	477	End	743
GI	2798358	Score	471
Exons	477..743		

Seq. No.	29959	Seq. ID	OJ990319_02.9819.C99
Gene No.	61775	Strand	-
Start	1748	End	1948
Name	OJ990319_02.9819.C99.o1.gs	Method	GENSCAN
Start	1748	End	1948
GI	none	Score	.61
Exons	1748..1948		

Seq. No.	29960	Seq. ID	OJ990319_02.9819.C100
Gene No.	61776	Strand	-
Start	402	End	644
Name	OJ990319_02.9819.C100.o1.gs	Method	GENSCAN
Start	402	End	644
GI	none	Score	.64
Exons	402..644		

Seq. No.	29961	Seq. ID	OJ990319_02.9819.C103
Gene No.	61777	Strand	+
Start	1025	End	1166
Name	OJ990319_02.9819.C103.o1.gp	Method	AAT/GAP
Start	1025	End	1166
GI	uC-osflcyp130f11a1	Score	258
Exons	1025..1166		
GI Descrip.	'606418/gb L35844 RICGA 1.0e-151 Oryza Sativa (clone RGAE8) G protein alpha subunit (RGAl) gene, complete cds'		

Seq. No.	29961	Seq. ID	OJ990319_02.9819.C103
Gene No.	61778	Strand	-
Start	488	End	586
Name	OJ990319_02.9819.C103.o1.gs	Method	GENSCAN
Start	488	End	586
GI	none	Score	.48
Exons	488..586		

Seq. No.	29962	Seq. ID	OJ990319_02.9819.C107
Gene No.	61779	Strand	+
Start	1	End	837
Name	OJ990319_02.9819.C107.o1.np	Method	AAT/NAP
Start	1	End	837
GI	5732076	Score	207
Exons	1..221, 712..837		
GI Descrip.	- (AF162444) contains similarity to Pfam family PF00070 - Pyridine nucleotide-disulphide oxidoreductase class-I; score=26.1, E=0.0008, N=1 [Arabidopsis thaliana]		

Seq. No.	29962	Seq. ID	OJ990319_02.9819.C107
Gene No.	61779	Strand	+

Start	1	End	837
Name	OJ990319_02.9819.C107.o1.tm	Method	TBLASTX:Maize
Start	86	End	837
GI	none	Score	146
Exons	86..223, 99..224, 134..244, 693..833, 709..837		

Seq. No.	29962	Seq. ID	OJ990319_02.9819.C107
Gene No.	61779	Strand	+
Start	1	End	837
Name	OJ990319_02.9819.C107.o1.gs	Method	GENSCAN
Start	90	End	833
GI	none	Score	.97
Exons	90..221, 712..833		

Seq. No.	29962	Seq. ID	OJ990319_02.9819.C107
Gene No.	61779	Strand	+
Start	1	End	837
Name	OJ990319_02.9819.C107.o1.ts	Method	TBLASTX:Soybean
Start	98	End	837
GI	none	Score	126
Exons	98..223, 99..224, 694..834, 709..837		

Seq. No.	29963	Seq. ID	OJ990319_02.9819.C110
Gene No.	61780	Strand	+
Start	216	End	1566
Name	OJ990319_02.9819.C110.o1.np	Method	AAT/NAP
Start	216	End	1566
GI	6523547	Score	120
Exons	216..677, 1420..1566		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	29964	Seq. ID	OJ990319_02.9819.C111
Gene No.	61781	Strand	-
Start	583	End	752
Name	OJ990319_02.9819.C111.o1.gs	Method	GENSCAN
Start	583	End	752
GI	none	Score	.64
Exons	583..617, 732..752		

Seq. No.	29965	Seq. ID	OJ990319_02.9819.C112
Gene No.	61782	Strand	+
Start	1	End	261
Name	OJ990319_02.9819.C112.o1.np	Method	AAT/NAP
Start	1	End	261
GI	5922620	Score	126
Exons	1..261		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	29965	Seq. ID	OJ990319_02.9819.C112
Gene No.	61783	Strand	+
Start	816	End	1400
Name	OJ990319_02.9819.C112.o1.gp	Method	AAT/GAP

Start	816	End	1400
GI	2799029	Score	826
Exons	816..1400		
GI Descrip.	2827318 1.0e-20 (AF042201) seed prolamine [Oryza sativa]		

Seq. No.	29965	Seq. ID	OJ990319_02.9819.C112
Gene No.	61784	Strand	-
Start	36	End	1389
Name	OJ990319_02.9819.C112.o1.gs	Method	GENSCAN
Start	36	End	1389
GI	none	Score	.74
Exons	36..142, 180..231, 236..316, 993..1389		

Seq. No.	29965	Seq. ID	OJ990319_02.9819.C112
Gene No.	61784	Strand	-
Start	36	End	1389
Name	OJ990319_02.9819.C112.o2.np	Method	AAT/NAP
Start	400	End	476
GI	6630699	Score	83
Exons	400..476		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	29965	Seq. ID	OJ990319_02.9819.C112
Gene No.	61784	Strand	-
Start	36	End	1389
Name	OJ990319_02.9819.C112.o3.np	Method	AAT/NAP
Start	934	End	1389
GI	4126693	Score	673
Exons	934..1389		
GI Descrip.	(AB016504) prolamin [Oryza sativa] gi 6180118 gb AAF05813.1 AF194115_1 (AF194115) prolamin 7 [Oryza sativa]		

Seq. No.	29966	Seq. ID	OJ990319_02.9819.C113
Gene No.	61785	Strand	+
Start	453	End	515
Name	OJ990319_02.9819.C113.o1.gs	Method	GENSCAN
Start	453	End	515
GI	none	Score	.45
Exons	453..515		

Seq. No.	29967	Seq. ID	OJ990319_02.9819.C114
Gene No.	61786	Strand	+
Start	443	End	1045
Name	OJ990319_02.9819.C114.o1.np	Method	AAT/NAP
Start	443	End	1045
GI	626040	Score	154
Exons	443..708, 747..1045		
GI Descrip.	protein kinase SNF1 homolog wpk4-p58 - wheat		

Seq. No.	29968	Seq. ID	OJ990319_02.9819.C116
Gene No.	61787	Strand	-
Start	84	End	227
Name	OJ990319_02.9819.C116.o1.gp	Method	AAT/GAP
Start	84	End	227

GI 102\_1.R1084 Score 255  
 Exons 84..227  
 GI Descrip. '1346104/sp|P49083|GBA1\_ORYSA 0.0e+00 GUANINE NUCLEOTIDE-BINDING  
 PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1) >gi\_540533\_dbj\_BAA07405\_  
 (D38232) G protein alpha subunit [Oryza sativa]

Seq. No. 29969 Seq. ID OJ990319\_02.9819.C117  
 Gene No. 61788 Strand +  
 Start 703 End 905  
 Name OJ990319\_02.9819.C117.o1.gs Method GENSCAN  
 Start 703 End 905  
 GI none Score .61  
 Exons 703..905

Seq. No. 29970 Seq. ID OJ990319\_03.9819.C1  
 Gene No. 61789 Strand +  
 Start 539 End 1604  
 Name OJ990319\_03.9819.C1.o1.tm Method TBLASTX:Maize  
 Start 250 End 799  
 GI none Score 99  
 Exons 250..348, 254..349, 255..353, 343..369, 345..371, 347..388,  
 394..432, 425..481, 426..482, 427..489, 527..799, 534..782,  
 536..799

Seq. No. 29970 Seq. ID OJ990319\_03.9819.C1  
 Gene No. 61789 Strand +  
 Start 539 End 1604  
 Name OJ990319\_03.9819.C1.o1.gs Method GENSCAN  
 Start 539 End 1007  
 GI none Score .7  
 Exons 539..827, 895..1007

Seq. No. 29970 Seq. ID OJ990319\_03.9819.C1  
 Gene No. 61789 Strand +  
 Start 539 End 1604  
 Name OJ990319\_03.9819.C1.o1.ts Method TBLASTX:Soybean  
 Start 539 End 853  
 GI none Score 366  
 Exons 539..853, 542..835, 703..840

Seq. No. 29970 Seq. ID OJ990319\_03.9819.C1  
 Gene No. 61789 Strand +  
 Start 539 End 1604  
 Name OJ990319\_03.9819.C1.o1.np Method AAT/NAP  
 Start 545 End 1604  
 GI 1777312 Score 324  
 Exons 545..932, 1557..1604  
 GI Descrip. (D30622) novel serine/threonine protein kinase [Arabidopsis  
 thaliana]

Seq. No. 29970 Seq. ID OJ990319\_03.9819.C1  
 Gene No. 61789 Strand +  
 Start 539 End 1604  
 Name OJ990319\_03.9819.C1.o1.tc Method TBLASTX:Cre'ss  
 Start 545 End 847  
 GI none Score 341  
 Exons 545..847, 548..847

Seq. No.	29970	Seq. ID	OJ990319_03.9819.C1
Gene No.	61789	Strand	+
Start	539	End	1604
Name	OJ990319_03.9819.C1.o1.tw	Method	TBLASTX:Wheat
Start	575	End	768
GI	none	Score	190
Exons	575..766, 598..645, 712..768		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.gp	Method	AAT/GAP
Start	66	End	384
GI	uC-osrocyp017g09a1	Score	591
Exons	66..384		
GI Descrip.	'6016698/gb AAF01525.1 AC009991_21 2.0e-12 (AC009991) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.gs	Method	GENSCAN
Start	143	End	874
GI	none	Score	.85
Exons	143..754, 768..874		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.np	Method	AAT/NAP
Start	158	End	1265
GI	6016698	Score	691
Exons	158..991, 1171..1265		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.ts	Method	TBLASTX:Soybean
Start	257	End	485
GI	none	Score	109
Exons	257..484, 327..485		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.tc	Method	TBLASTX:Cress
Start	401	End	727
GI	none	Score	100
Exons	401..595, 408..485, 558..596, 594..674, 596..727		

Seq. No.	29971	Seq. ID	OJ990319_03.9819.C2
Gene No.	61790	Strand	-
Start	66	End	1265
Name	OJ990319_03.9819.C2.o1.tm	Method	TBLASTX:Maize
Start	473	End	740

GI none  
Exons 473..733, 558..740

Score 234

Seq. No. 29972  
Gene No. 61791  
Start 186  
Name OJ990319\_03.9819.C3.o1.gs  
Start 186  
GI none  
Exons 186..276, 389..465

Seq. ID OJ990319\_03.9819.C3  
Strand +  
End 465  
Method GENSCAN  
End 465  
Score .69

Seq. No. 29972  
Gene No. 61792  
Start 250  
Name OJ990319\_03.9819.C3.o1.gp  
Start 250  
GI 102\_14.R1084  
Exons 250..308, 430..611

Seq. ID OJ990319\_03.9819.C3  
Strand -  
End 611  
Method AAT/GAP  
End 611  
Score 388

GI Descrip. '5822826/dbj|AB028602.1|AB028602 1.0e-101 Oryza sativa D1 gene  
for alpha-subunit of GTP-binding protein, wild type, partial  
sequence'

Seq. No. 29973  
Gene No. 61793  
Start 1014  
Name OJ990319\_03.9819.C4.o1.gs  
Start 1014  
GI none  
Exons 1014..1850

Seq. ID OJ990319\_03.9819.C4  
Strand -  
End 1850  
Method GENSCAN  
End 1850  
Score .96

Seq. No. 29973  
Gene No. 61793  
Start 1014  
Name OJ990319\_03.9819.C4.o1.ts  
Start 1047  
GI none  
Exons 1047..1346, 1329..1454

Seq. ID OJ990319\_03.9819.C4  
Strand -  
End 1850  
Method TBLASTX:Soybean  
End 1454  
Score 97

Seq. No. 29974  
Gene No. 61794  
Start 382  
Name OJ990319\_03.9819.C5.o1.gs  
Start 382  
GI none  
Exons 382..985

Seq. ID OJ990319\_03.9819.C5  
Strand -  
End 985  
Method GENSCAN  
End 985  
Score .44

Seq. No. 29975  
Gene No. 61795  
Start 31  
Name OJ990319\_03.9819.C6.o1.gs  
Start 31  
GI none  
Exons 31..265, 538..662

Seq. ID OJ990319\_03.9819.C6  
Strand -  
End 846  
Method GENSCAN  
End 662  
Score .87

Seq. No. 29975  
Gene No. 61795  
Start 31

Seq. ID OJ990319\_03.9819.C6  
Strand -  
End 846

Name	OJ990319_03.9819.C6.o1.np	Method	AAT/NAP
Start	492	End	846
GI	4126693	Score	370
Exons	492..846		
GI Descrip.	(AB016504) prolamin [Oryza sativa] gi 6180118 gb AAF05813.1 AF194115_1 (AF194115) prolamin 7 [Oryza sativa]		

Seq. No.	29976	Seq. ID	OJ990319_03.9819.C7
Gene No.	61796	Strand	+
Start	1	End	1825
Name	OJ990319_03.9819.C7.o1.np	Method	AAT/NAP
Start	1	End	1825
GI	5852180	Score	128
Exons	1..209, 1787..1825		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29977	Seq. ID	OJ990319_03.9819.C8
Gene No.	61797	Strand	-
Start	738	End	987
Name	OJ990319_03.9819.C8.o1.gs	Method	GENSCAN
Start	738	End	987
GI	none	Score	.68
Exons	738..895, 984..987		

Seq. No.	29978	Seq. ID	OJ990319_03.9819.C10
Gene No.	61798	Strand	+
Start	24	End	494
Name	OJ990319_03.9819.C10.o1.gs	Method	GENSCAN
Start	24	End	494
GI	none	Score	.69
Exons	24..149, 315..494		

Seq. No.	29979	Seq. ID	OJ990319_03.9819.C11
Gene No.	61799	Strand	+
Start	826	End	1348
Name	OJ990319_03.9819.C11.o1.gp	Method	AAT/GAP
Start	826	End	1310
GI	LIB3479-001-Q6-K2-G5	Score	783
Exons	826..1310		
GI Descrip.	'4126693/dbj BAA36698  4.0e-28 (AB016504) prolamin [Oryza sativa]'		

Seq. No.	29979	Seq. ID	OJ990319_03.9819.C11
Gene No.	61799	Strand	+
Start	826	End	1348
Name	OJ990319_03.9819.C11.o1.np	Method	AAT/NAP
Start	893	End	1348
GI	4126693	Score	674
Exons	893..1348		
GI Descrip.	(AB016504) prolamin [Oryza sativa] gi 6180118 gb AAF05813.1 AF194115_1 (AF194115) prolamin 7 [Oryza sativa]		

Seq. No.	29980	Seq. ID	OJ990319_03.9819.C12
Gene No.	61800	Strand	+
Start	1756	End	2562

Name	OJ990319_03.9819.C12.o1.np	Method	AAT/NAP
Start	1756	End	2562
GI	2347199	Score	92
Exons	1756..1938, 2406..2562		
GI Descrip.	(AC002338) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	29980	Seq. ID	OJ990319_03.9819.C12
Gene No.	61801	Strand	-
Start	1194	End	2438
Name	OJ990319_03.9819.C12.o1.gs	Method	GENSCAN
Start	1194	End	2438
GI	none	Score	.59
Exons	1194..1214, 1609..1803, 2418..2438		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61802	Strand	+
Start	653	End	5603
Name	OJ990319_03.9819.C14.o1.gs	Method	GENSCAN
Start	653	End	5603
GI	none	Score	.84
Exons	653..793, 1111..1216, 1460..1643, 2155..2229, 2943..3081, 3203..3341, 3428..3485, 4233..4275, 4441..4489, 4758..5603		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61802	Strand	+
Start	653	End	5603
Name	OJ990319_03.9819.C14.o1.gp	Method	AAT/GAP
Start	2900	End	3261
GI	102_14.R1084	Score	392
Exons	2900..3081, 3203..3261		
GI Descrip.	'5822826/dbj AB028602.1 AB028602 1.0e-101 Oryza sativa D1 gene for alpha-subunit of GTP-binding protein, wild type, partial sequence'		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61802	Strand	+
Start	653	End	5603
Name	OJ990319_03.9819.C14.o1.np	Method	AAT/NAP
Start	3244	End	5600
GI	4490747	Score	1380
Exons	3244..3341, 3428..3485, 4233..4275, 4441..4489, 4587..4661, 4749..5600		
GI Descrip.	(AL035708) DnaJ-like protein [Arabidopsis thaliana]		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61803	Strand	+
Start	7282	End	14065
Name	OJ990319_03.9819.C14.o2.gs	Method	GENSCAN
Start	7282	End	13776
GI	none	Score	.42
Exons	7282..7543, 7819..7946, 8363..8659, 10620..10657, 10739..10847, 10977..11054, 11582..11716, 11800..11901, 12604..12659, 12839..12973, 13611..13776		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61803	Strand	+
Start	7282	End	14065



Name OJ990319\_03.9819.C14.o3.gp Method AAT/GAP  
 Start 8408 End 14065  
 GI 102\_1.R1084 Score 3275  
 Exons 8408..8659, 10027..10199, 10298..10370, 10620..10657,  
 10739..10828, 10977..11054, 11609..11716, 11800..11901,  
 12604..12659, 12839..12973, 13050..13143, 13230..13289,  
 13367..13446, 13611..14065  
 GI Descrip. '1346104/sp|P49083|GBA1\_ORYSA 0.0e+00 GUANINE NUCLEOTIDE-BINDING  
 PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1) >gi\_540533\_dbj\_BAA07405\_  
 (D38232) G protein alpha subunit [Oryza sativa]'

Seq. No. 29981 Seq. ID OJ990319\_03.9819.C14  
 Gene No. 61803 Strand +  
 Start 7282 End 14065  
 Name OJ990319\_03.9819.C14.o2.np Method AAT/NAP  
 Start 10137 End 13773  
 GI 1346104 Score 1599  
 Exons 10137..10199, 10298..10370, 10620..10657, 10739..10828,  
 10977..11054, 11609..11716, 11800..11901, 12604..12659,  
 12839..12973, 13050..13143, 13230..13289, 13367..13446,  
 13611..13773  
 GI Descrip. GUANINE NUCLEOTIDE-BINDING PROTEIN ALPHA-1 SUBUNIT (GP-ALPHA-1)  
 gi|540533|dbj|BAA07405| (D38232) G protein alpha subunit [Oryza  
 sativa]

Seq. No. 29981 Seq. ID OJ990319\_03.9819.C14  
 Gene No. 61804 Strand -  
 Start 5549 End 6030  
 Name OJ990319\_03.9819.C14.o2.gp Method AAT/GAP  
 Start 5549 End 6030  
 GI uC-osflcyp130f11a1 Score 943  
 Exons 5549..6030  
 GI Descrip. '606418/gb|L35844|RICRGA 1.0e-151 Oryza Sativa (clone RGAE8) G  
 protein alpha subunit (RGAl) gene, complete cds'

Seq. No. 29981 Seq. ID OJ990319\_03.9819.C14  
 Gene No. 61805 Strand -  
 Start 14216 End 18020  
 Name OJ990319\_03.9819.C14.o3.tm Method TBLASTX:Maize  
 Start 3427 End 5132  
 GI none Score 87  
 Exons 3427..3483, 3428..3484, 4232..4276, 4439..4492, 4440..4490,  
 4442..4492, 4565..4669, 4584..4667, 4585..4668, 4585..4671,  
 4757..4798, 4758..4799, 4759..4839, 4759..4866, 4829..5020,  
 4830..4961, 5076..5099, 5097..5132

Seq. No. 29981 Seq. ID OJ990319\_03.9819.C14  
 Gene No. 61805 Strand -  
 Start 14216 End 18020  
 Name OJ990319\_03.9819.C14.o1.ts Method TBLASTX:Soybean  
 Start 3428 End 5207  
 GI none Score 78  
 Exons 3428..3484, 4232..4276, 4438..4491, 4439..4492, 4584..4667,  
 4586..4669, 4746..4799, 4830..4961, 4838..5173, 4851..5180,  
 5003..5176, 5025..5180, 5184..5207

Seq. No. 29981 Seq. ID OJ990319\_03.9819.C14

Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	5168	End	5803
GI	none	Score	701
Exons	5168..5509, 5170..5604, 5172..5603, 5294..5605, 5590..5667, 5591..5668, 5612..5671, 5747..5803, 5750..5773		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o3.ts	Method	TBLASTX:Soybean
Start	5181	End	5438
GI	none	Score	129
Exons	5181..5357, 5207..5275, 5342..5437, 5343..5438		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o2.tc	Method	TBLASTX:Cress
Start	5340	End	5594
GI	none	Score	150
Exons	5340..5450, 5342..5449, 5445..5594, 5447..5509		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o2.ts	Method	TBLASTX:Soybean
Start	10131	End	13758
GI	none	Score	53
Exons	10131..10205, 10322..10372, 10618..10656, 10619..10660, 10724..10843, 10735..10842, 10755..10847, 10974..11075, 10979..11041, 11603..11716, 11603..11716, 11776..11901, 11800..11901, 12601..12657, 12836..12979, 12837..12974, 12837..12989, 13051..13143, 13052..13141, 13227..13307, 13229..13291, 13363..13452, 13367..13447, 13379..13456, 13606..13758, 13611..13757		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o1.tc	Method	TBLASTX:Cress
Start	10294	End	13758
GI	none	Score	93
Exons	10294..10371, 10295..10372, 10618..10656, 10619..10660, 10724..10843, 10735..10842, 11612..11716, 11782..11901, 11798..11902, 11800..11901, 12601..12657, 12603..12659, 12836..12979, 12837..12974, 12840..12989, 13051..13143, 13051..13143, 13067..13144, 13227..13307, 13229..13279, 13366..13452, 13367..13447, 13605..13733, 13606..13758, 13606..13746, 13611..13754		

Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o2.tm	Method	TBLASTX:Maize
Start	10988	End	13423

GI	none	Score	98
Exons	10988..11050, 10989..11054, 11603..11716, 11604..11717, 11605..11718, 11775..11903, 11800..11901, 12601..12657, 12601..12708, 12603..12659, 12836..12979, 12837..12974, 12840..12983, 12848..12976, 13047..13142, 13051..13143, 13051..13143, 13213..13290, 13225..13290, 13227..13307, 13229..13291, 13363..13422, 13367..13423		
Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o4.tm	Method	TBLASTX:Maize
Start	13611	End	13906
GI	none	Score	186
Exons	13611..13781, 13611..13781, 13612..13782, 13793..13840, 13794..13904, 13806..13838, 13829..13906		
Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o3.np	Method	AAT/NAP
Start	14216	End	18020
GI	5107812	Score	101
Exons	14216..14260, 14676..14998, 16850..16956, 17999..18020		
GI Descrip.	(AF149413) contains similarity to number of Arabidopsis thaliana hypothetical proteins including AC004521 and AL031326		
Seq. No.	29981	Seq. ID	OJ990319_03.9819.C14
Gene No.	61805	Strand	-
Start	14216	End	18020
Name	OJ990319_03.9819.C14.o3.gs	Method	GENSCAN
Start	14658	End	16642
GI	none	Score	.45
Exons	14658..14860, 16351..16642		
Seq. No.	29982	Seq. ID	OJ990319_03.9819.C15
Gene No.	61806	Strand	+
Start	6023	End	8023
Name	OJ990319_03.9819.C15.o2.gs	Method	GENSCAN
Start	6023	End	8023
GI	none	Score	.49
Exons	6023..6025, 6771..6917, 7232..7485, 7579..8023		
Seq. No.	29982	Seq. ID	OJ990319_03.9819.C15
Gene No.	61807	Strand	-
Start	556	End	4019
Name	OJ990319_03.9819.C15.o1.gs	Method	GENSCAN
Start	556	End	3461
GI	none	Score	.71
Exons	556..735, 758..1001, 2838..3022, 3408..3461		
Seq. No.	29982	Seq. ID	OJ990319_03.9819.C15
Gene No.	61807	Strand	-
Start	556	End	4019
Name	OJ990319_03.9819.C15.o1.np	Method	AAT/NAP
Start	1442	End	4019
GI	3128199	Score	73.

Exons 1442..1462, 2838..2958, 3342..3510, 3886..4019  
 GI Descrip. (AC004521) unknown protein [Arabidopsis thaliana]

Seq. No.	29982	Seq. ID	OJ990319_03.9819.C15
Gene No.	61808	Strand	-
Start	9561	End	9663
Name	OJ990319_03.9819.C15.o3.gs	Method	GENSCAN
Start	9561	End	9663
GI	none	Score	.78
Exons	9561..9663		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.np	Method	AAT/NAP
Start	266	End	1228
GI	3928519	Score	562
Exons	266..531, 570..1228		
GI Descrip.	(AB011670) wpk4 protein kinase [Triticum aestivum]		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.gs	Method	GENSCAN
Start	323	End	1258
GI	none	Score	.49
Exons	323..565, 677..1258		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.tm	Method	TBLASTX:Maize
Start	386	End	1391
GI	none	Score	117
Exons	386..490, 386..481, 609..662, 656..721, 725..883, 917..1180, 989..1180, 1066..1182, 1171..1230, 1314..1391		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	386	End	1391
GI	none	Score	98
Exons	386..490, 725..895, 919..1134, 920..1180, 1171..1230, 1317..1391		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o2.tw	Method	TBLASTX:Wheat
Start	719	End	1027
GI	none	Score	108
Exons	719..844, 943..1026, 944..1027		

Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.tc	Method	TBLASTX:Cress

Start	737	End	1230
GI	none	Score	155
Exons	737..913, 919..1179, 920..1180, 1171..1230		
Seq. No.	29983	Seq. ID	OJ990319_03.9819.C16
Gene No.	61809	Strand	+
Start	266	End	1391
Name	OJ990319_03.9819.C16.o1.tw	Method	TBLASTX:Wheat
Start	1028	End	1239
GI	none	Score	187
Exons	1028..1180, 1028..1180, 1171..1239		
Seq. No.	29984	Seq. ID	OJ990319_03.9819.C18
Gene No.	61810	Strand	+
Start	3759	End	4023
Name	OJ990319_03.9819.C18.o2.gs	Method	GENSCAN
Start	3759	End	4023
GI	none	Score	.66
Exons	3759..3806, 3874..4023		
Seq. No.	29984	Seq. ID	OJ990319_03.9819.C18
Gene No.	61811	Strand	-
Start	77	End	2016
Name	OJ990319_03.9819.C18.o1.gs	Method	GENSCAN
Start	77	End	2016
GI	none	Score	.88
Exons	77..186, 206..454, 1298..1595, 1852..2016		
Seq. No.	29985	Seq. ID	OJ990319_03.9819.C19
Gene No.	61812	Strand	+
Start	409	End	1927
Name	OJ990319_03.9819.C19.o1.gs	Method	GENSCAN
Start	409	End	1927
GI	none	Score	.42
Exons	409..472, 1430..1631, 1759..1927		
Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61813	Strand	+
Start	8215	End	9756
Name	OJ990319_03.9819.C20.o1.np	Method	AAT/NAP
Start	8215	End	9756
GI	6016698	Score	897
Exons	8215..8267, 8363..9400, 9731..9756		
GI Descrip.	(AC009991) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61813	Strand	+
Start	8215	End	9756
Name	OJ990319_03.9819.C20.o1.gp	Method	AAT/GAP
Start	8239	End	8692
GI	uC-osflM202097a10b1	Score	802
Exons	8239..8692		
GI Descrip.	'6016698/gb AAF01525.1 AC009991 21 5.0e-23 (AC009991) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61814	Strand	-

Start	1311	End	6194
Name	OJ990319_03.9819.C20.o1.gs	Method	GENSCAN
Start	1311	End	6194
GI	none	Score	.64
Exons	1311..1323, 1624..1724, 1830..1907, 2406..2605, 6107..6194		

Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61815	Strand	-
Start	8323	End	9411
Name	OJ990319_03.9819.C20.o2.gs	Method	GENSCAN
Start	8323	End	9411
GI	none	Score	.49
Exons	8323..9182, 9264..9411		

Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61815	Strand	-
Start	8323	End	9411
Name	OJ990319_03.9819.C20.o1.tc	Method	TBLASTX:Cress
Start	8407	End	8559
GI	none	Score	218
Exons	8407..8559		

Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61815	Strand	-
Start	8323	End	9411
Name	OJ990319_03.9819.C20.o1.tm	Method	TBLASTX:Maize
Start	8407	End	8640
GI	none	Score	186
Exons	8407..8598, 8419..8466, 8459..8491, 8596..8640		

Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61815	Strand	-
Start	8323	End	9411
Name	OJ990319_03.9819.C20.o1.ts	Method	TBLASTX:Soybean
Start	8407	End	8901
GI	none	Score	177
Exons	8407..8535, 8459..8491, 8505..8534, 8565..8747, 8566..8739, 8685..8897, 8704..8901		

Seq. No.	29986	Seq. ID	OJ990319_03.9819.C20
Gene No.	61815	Strand	-
Start	8323	End	9411
Name	OJ990319_03.9819.C20.o2.ts	Method	TBLASTX:Soybean
Start	8910	End	9166
GI	none	Score	210
Exons	8910..9065, 8911..9075, 9101..9166		

Seq. No.	29987	Seq. ID	OJ990319_03.9819.C21
Gene No.	61816	Strand	-
Start	1917	End	2345
Name	OJ990319_03.9819.C21.o1.gs	Method	GENSCAN
Start	1917	End	2345
GI	none	Score	.71
Exons	1917..1972, 2222..2345		

Seq. No.	29988	Seq. ID	OJ990319_03.9819.C22
Gene No.	61817	Strand	-

Start 508  
 Name OJ990319\_03.9819.C22.o1.gs  
 Start 508  
 GI none  
 Exons 508..771, 1949..2019

End 2019  
 Method GENSCAN  
 End 2019  
 Score .79

Seq. No. 29989  
 Gene No. 61818  
 Start 2345  
 Name OJ990319\_03.9819.C23.o1.gs  
 Start 2345  
 GI none  
 Exons 2345..2348, 2500..2591

Seq. ID OJ990319\_03.9819.C23  
 Strand +  
 End 2591  
 Method GENSCAN  
 End 2591  
 Score .61

Seq. No. 29990  
 Gene No. 61819  
 Start 860  
 Name OJ990319\_03.9819.C25.o1.np  
 Start 819  
 GI 3256035  
 Exons 819..2224  
 GI Descrip. (Y14274) putative serine/threonine protein kinase [Sorghum  
 bicolor]

Seq. ID OJ990319\_03.9819.C25  
 Strand -  
 End 2367  
 Method AAT/NAP  
 End 2224  
 Score 1424

Seq. No. 29990  
 Gene No. 61819  
 Start 860  
 Name OJ990319\_03.9819.C25.o1.gs  
 Start 860  
 GI none  
 Exons 860..2230

Seq. ID OJ990319\_03.9819.C25  
 Strand -  
 End 2367  
 Method GENSCAN  
 End 2230  
 Score .97

Seq. No. 29990  
 Gene No. 61819  
 Start 860  
 Name OJ990319\_03.9819.C25.o1.ts  
 Start 872  
 GI none  
 Exons 872..1066, 872..1306, 900..1082, 1137..1307, 1400..2011,  
 1401..1772, 1412..2005, 1842..2009

Seq. ID OJ990319\_03.9819.C25  
 Strand -  
 End 2367  
 Method TBLASTX:Soybean  
 End 2011  
 Score 124

Seq. No. 29990  
 Gene No. 61819  
 Start 860  
 Name OJ990319\_03.9819.C25.o1.tm  
 Start 878  
 GI none  
 Exons 878..1303, 900..1298, 1379..2221, 1400..2221, 1842..2225,  
 2296..2367

Seq. ID OJ990319\_03.9819.C25  
 Strand -  
 End 2367  
 Method TBLASTX:Maize  
 End 2367  
 Score 286

Seq. No. 29990  
 Gene No. 61819  
 Start 860  
 Name OJ990319\_03.9819.C25.o1.tc  
 Start 906  
 GI none  
 Exons 906..1043, 908..1045, 1100..1300, 1140..1280, 1403..2224,

Seq. ID OJ990319\_03.9819.C25  
 Strand -  
 End 2367  
 Method TBLASTX:Cress  
 End 2224  
 Score 90

1419..1778, 1514..2221

Seq. No.	29990	Seq. ID	OJ990319_03.9819.C25
Gene No.	61819	Strand	-
Start	860	End	2367
Name	OJ990319_03.9819.C25.o3.tw	Method	TBLASTX:Wheat
Start	938	End	1288
GI	none	Score	78
Exons	938..1066, 963..1079, 963..1064, 965..1108, 1211..1288		

Seq. No.	29990	Seq. ID	OJ990319_03.9819.C25
Gene No.	61819	Strand	-
Start	860	End	2367
Name	OJ990319_03.9819.C25.o2.tw	Method	TBLASTX:Wheat
Start	1347	End	1624
GI	none	Score	38
Exons	1347..1421, 1418..1624, 1485..1616		

Seq. No.	29990	Seq. ID	OJ990319_03.9819.C25
Gene No.	61819	Strand	-
Start	860	End	2367
Name	OJ990319_03.9819.C25.o1.tw	Method	TBLASTX:Wheat
Start	1769	End	2071
GI	none	Score	79
Exons	1769..1918, 1917..2048, 1919..2071		

Seq. No.	29990	Seq. ID	OJ990319_03.9819.C25
Gene No.	61819	Strand	-
Start	860	End	2367
Name	OJ990319_03.9819.C25.o2.ts	Method	TBLASTX:Soybean
Start	2012	End	2230
GI	none	Score	128
Exons	2012..2230, 2016..2228		

Seq. No.	29991	Seq. ID	OJ990319_03.9819.C26
Gene No.	61820	Strand	+
Start	1176	End	2271
Name	OJ990319_03.9819.C26.o1.gs	Method	GENSCAN
Start	1176	End	2271
GI	none	Score	.48
Exons	1176..1230, 2099..2271		

Seq. No.	29992	Seq. ID	OJ990319_03.9819.C27
Gene No.	61821	Strand	+
Start	548	End	750
Name	OJ990319_03.9819.C27.o1.gp	Method	AAT/GAP
Start	548	End	750
GI	2442705	Score	352
Exons	548..750		

Seq. No.	29992	Seq. ID	OJ990319_03.9819.C27
Gene No.	61822	Strand	+
Start	2488	End	3594
Name	OJ990319_03.9819.C27.o1.gs	Method	GENSCAN
Start	2488	End	3594
GI	none	Score	.91
Exons	2488..3594		



Seq. No.	29992	Seq. ID	OJ990319_03.9819.C27
Gene No.	61822	Strand	+
Start	2488	End	3594
Name	OJ990319_03.9819.C27.o1.tw	Method	TBLASTX:Wheat
Start	3132	End	3519
GI	none	Score	131
Exons	3132..3215, 3133..3276, 3178..3228, 3241..3300, 3292..3378, 3308..3376, 3448..3519, 3483..3518		

Seq. No.	29993	Seq. ID	OJ990319_03.9819.C28
Gene No.	61823	Strand	+
Start	1	End	1233
Name	OJ990319_03.9819.C28.o1.np	Method	AAT/NAP
Start	1	End	1233
GI	5917666	Score	75
Exons	1..29, 576..905, 1143..1233		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	29993	Seq. ID	OJ990319_03.9819.C28
Gene No.	61824	Strand	-
Start	455	End	706
Name	OJ990319_03.9819.C28.o1.gs	Method	GENSCAN
Start	455	End	706
GI	none	Score	.49
Exons	455..706		

Seq. No.	29994	Seq. ID	OJ990319_03.9819.C32
Gene No.	61825	Strand	-
Start	1	End	1977
Name	OJ990319_03.9819.C32.o1.np	Method	AAT/NAP
Start	1	End	1977
GI	4582447	Score	975
Exons	1..1438, 1484..1622, 1919..1977		
GI Descrip.	(AC007071) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	29994	Seq. ID	OJ990319_03.9819.C32
Gene No.	61825	Strand	-
Start	1	End	1977
Name	OJ990319_03.9819.C32.o2.tw	Method	TBLASTX:Wheat
Start	255	End	653
GI	none	Score	142
Exons	255..329, 307..645, 330..653		

Seq. No.	29994	Seq. ID	OJ990319_03.9819.C32
Gene No.	61825	Strand	-
Start	1	End	1977
Name	OJ990319_03.9819.C32.o1.tm	Method	TBLASTX:Maize
Start	301	End	662
GI	none	Score	99
Exons	301..642, 309..662		

Seq. No.	29994	Seq. ID	OJ990319_03.9819.C32
Gene No.	61825	Strand	-
Start	1	End	1977
Name	OJ990319_03.9819.C32.o1.ts	Method	TBLASTX:Soybean

Start 318  
 GI none  
 Exons 318..518, 549..737

End 737  
 Score 121

Seq. No. 29994  
 Gene No. 61825  
 Start 1  
 Name OJ990319\_03.9819.C32.o3.tw  
 Start 657  
 GI none  
 Exons 657..857, 658..858

Seq. ID OJ990319\_03.9819.C32  
 Strand -  
 End 1977  
 Method TBLASTX:Wheat  
 End 858  
 Score 117

Seq. No. 29994  
 Gene No. 61825  
 Start 1  
 Name OJ990319\_03.9819.C32.o2.tm  
 Start 992  
 GI none  
 Exons 992..1306, 1020..1094, 1167..1295, 1298..1453

Seq. ID OJ990319\_03.9819.C32  
 Strand -  
 End 1977  
 Method TBLASTX:Maize  
 End 1453  
 Score 47

Seq. No. 29994  
 Gene No. 61825  
 Start 1  
 Name OJ990319\_03.9819.C32.o1.tw  
 Start 1028  
 GI none  
 Exons 1028..1195, 1029..1202, 1190..1408, 1317..1409

Seq. ID OJ990319\_03.9819.C32  
 Strand -  
 End 1977  
 Method TBLASTX:Wheat  
 End 1409  
 Score 112

Seq. No. 29995  
 Gene No. 61826  
 Start 6570  
 Name OJ990319\_03.9819.C33.o3.gs  
 Start 6570  
 GI none  
 Exons 6570..6944, 7037..7208, 7505..7590

Seq. ID OJ990319\_03.9819.C33  
 Strand +  
 End 7590  
 Method GENSCAN  
 End 7590  
 Score .95

Seq. No. 29995  
 Gene No. 61827  
 Start 8021  
 Name OJ990319\_03.9819.C33.o1.gp  
 Start 8021  
 GI uC-osflcyp033a04b1  
 Exons 8021..8402  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. ID OJ990319\_03.9819.C33  
 Strand +  
 End 8402  
 Method AAT/GAP  
 End 8402  
 Score 651

Seq. No. 29995  
 Gene No. 61828  
 Start 9900  
 Name OJ990319\_03.9819.C33.o3.np  
 Start 9900  
 GI 6630699  
 Exons 9900..9983  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. ID OJ990319\_03.9819.C33  
 Strand +  
 End 9983  
 Method AAT/NAP  
 End 9983  
 Score 91

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61829	Strand	+
Start	10138	End	14487
Name	OJ990319_03.9819.C33.o5.gs	Method	GENSCAN
Start	10138	End	14487
GI	none	Score	.84
Exons	10138..10147, 10548..10568, 10637..10726, 13543..13835, 14035..14080, 14402..14487		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61830	Strand	-
Start	471	End	716
Name	OJ990319_03.9819.C33.o1.gs	Method	GENSCAN
Start	471	End	716
GI	none	Score	.63
Exons	471..609, 627..716		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61831	Strand	-
Start	1615	End	9856
Name	OJ990319_03.9819.C33.o2.np	Method	AAT/NAP
Start	1615	End	8317
GI	5852180	Score	411
Exons	1615..1654, 6674..7097, 7149..7267, 8251..8317		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61831	Strand	-
Start	1615	End	9856
Name	OJ990319_03.9819.C33.o1.np	Method	AAT/NAP
Start	1645	End	4967
GI	6721512	Score	100
Exons	1645..1667, 2944..3052, 4931..4967		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61831	Strand	-
Start	1615	End	9856
Name	OJ990319_03.9819.C33.o2.gs	Method	GENSCAN
Start	3251	End	6435
GI	none	Score	.88
Exons	3251..3706, 3764..3939, 5005..5263, 5475..5736, 6368..6435		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61831	Strand	-
Start	1615	End	9856
Name	OJ990319_03.9819.C33.o4.gs	Method	GENSCAN
Start	8099	End	9856
GI	none	Score	.8
Exons	8099..8154, 8251..8304, 9268..9292, 9627..9764, 9782..9856		

Seq. No.	29995	Seq. ID	OJ990319_03.9819.C33
Gene No.	61832	Strand	-
Start	10122	End	14855
Name	OJ990319_03.9819.C33.o4.np	Method	AAT/NAP
Start	10122	End	12484
GI	5922620	Score	276

Exons 10122..10345, 11558..11812, 12219..12484  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 29995 Seq. ID OJ990319\_03.9819.C33  
 Gene No. 61832 Strand -  
 Start 10122 End 14855  
 Name OJ990319\_03.9819.C33.o5.np Method AAT/NAP  
 Start 10943 End 14855  
 GI 5852180 Score 390  
 Exons 10943..10985, 11717..11771, 13584..13985, 14038..14165, 14678..14855  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 29996 Seq. ID OJ990319\_03.9819.C34  
 Gene No. 61833 Strand +  
 Start 480 End 3405  
 Name OJ990319\_03.9819.C34.o1.gp Method AAT/GAP  
 Start 412 End 897  
 GI LIB3479-001-Q6-K2-G5 Score 788  
 Exons 412..897  
 GI Descrip. '4126693/dbj|BAA36698| 4.0e-28 (AB016504) prolamin [Oryza sativa]'

Seq. No. 29996 Seq. ID OJ990319\_03.9819.C34  
 Gene No. 61833 Strand +  
 Start 480 End 3405  
 Name OJ990319\_03.9819.C34.o1.gs Method GENSCAN  
 Start 480 End 1407  
 GI none Score .41  
 Exons 480..889, 1218..1407

Seq. No. 29996 Seq. ID OJ990319\_03.9819.C34  
 Gene No. 61833 Strand +  
 Start 480 End 3405  
 Name OJ990319\_03.9819.C34.o1.np Method AAT/NAP  
 Start 480 End 935  
 GI 4126693 Score 688  
 Exons 480..935  
 GI Descrip. (AB016504) prolamin [Oryza sativa]  
 gi|6180118|gb|AAF05813.1|AF194115\_1 (AF194115) prolamin 7 [Oryza sativa]

Seq. No. 29996 Seq. ID OJ990319\_03.9819.C34  
 Gene No. 61833 Strand +  
 Start 480 End 3405  
 Name OJ990319\_03.9819.C34.o2.np Method AAT/NAP  
 Start 1004 End 3405  
 GI 5042463 Score 200  
 Exons 1004..1048, 2246..2433, 3360..3405  
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. No. 29996 Seq. ID OJ990319\_03.9819.C34  
 Gene No. 61834 Strand -

Start 1970  
 Name OJ990319\_03.9819.C34.o2.gs  
 Start 1970  
 GI none  
 Exons 1970..2430, 2800..2812

End 2812  
 Method GENSCAN  
 End 2812  
 Score .92

Seq. No. 29997  
 Gene No. 61835  
 Start 217  
 Name OJ990319\_03.9819.C37.o1.gs  
 Start 217  
 GI none  
 Exons 217..279

Seq. ID OJ990319\_03.9819.C37  
 Strand -  
 End 279  
 Method GENSCAN  
 End 279  
 Score .62

Seq. No. 29998  
 Gene No. 61836  
 Start 92  
 Name OJ990319\_03.9819.C38.o1.gs  
 Start 92  
 GI none  
 Exons 92..363

Seq. ID OJ990319\_03.9819.C38  
 Strand +  
 End 363  
 Method GENSCAN  
 End 363  
 Score .95

Seq. No. 29998  
 Gene No. 61837  
 Start 1037  
 Name OJ990319\_03.9819.C38.o2.gs  
 Start 1037  
 GI none  
 Exons 1037..1094, 1528..1765, 2128..2200, 2691..2963, 3578..3682, 3768..3984, 4211..4461, 4762..4956, 5061..5319, 6687..6724, 6797..6913, 6918..7066, 7331..7409, 7523..7609

Seq. ID OJ990319\_03.9819.C38  
 Strand -  
 End 7609  
 Method GENSCAN  
 End 7609  
 Score .74

Seq. No. 29998  
 Gene No. 61837  
 Start 1037  
 Name OJ990319\_03.9819.C38.o1.gp  
 Start 1178  
 GI 2798358  
 Exons 1178..1444

Seq. ID OJ990319\_03.9819.C38  
 Strand -  
 End 7609  
 Method AAT/GAP  
 End 1444  
 Score 471

Seq. No. 29998  
 Gene No. 61837  
 Start 1037  
 Name OJ990319\_03.9819.C38.o3.tc  
 Start 1421  
 GI none  
 Exons 1421..1552, 1444..1554, 1445..1555, 1449..1565, 1633..1764, 1646..1765, 1646..1771, 1648..1779, 2084..2203, 2123..2203, 2688..2771, 2689..2772

Seq. ID OJ990319\_03.9819.C38  
 Strand -  
 End 7609  
 Method TBLASTX:Cress  
 End 2772  
 Score 82

Seq. No. 29998  
 Gene No. 61837  
 Start 1037  
 Name OJ990319\_03.9819.C38.o2.ts  
 Start 1433  
 GI none  
 Exons 1433..1552, 1435..1554, 1446..1562, 1646..1765, 1646..1747,

Seq. ID OJ990319\_03.9819.C38  
 Strand -  
 End 7609  
 Method TBLASTX:Soybean  
 End 1779  
 Score 96

1648..1779

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o1.tm	Method	TBLASTX:Maize
Start	1439	End	4464
GI	none	Score	109
Exons	1439..1591, 1449..1595, 1648..1731, 1697..1732, 1732..1779, 1733..1768, 2075..2203, 2079..2219, 2668..2919, 2688..2969, 2689..2949, 3576..3662, 3578..3685, 3578..3682, 3758..3841, 3762..3983, 3768..3983, 3772..3987, 4195..4464, 4204..4464		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o1.np	Method	AAT/NAP
Start	1442	End	5426
GI	5732076	Score	1672
Exons	1442..1526, 1646..1765, 2079..2200, 2691..2963, 3578..3682, 3768..3984, 4211..4461, 4762..4956, 5061..5426		
GI Descrip.	(AF162444) contains similarity to Pfam family PF00070 - Pyridine nucleotide-disulphide oxidoreductase class-I; score=26.1, E=0.0008, N=1 [Arabidopsis thaliana]		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o3.ts	Method	TBLASTX:Soybean
Start	2075	End	2969
GI	none	Score	105
Exons	2075..2203, 2078..2218, 2688..2969, 2689..2955		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o2.tc	Method	TBLASTX:Cress
Start	2847	End	3983
GI	none	Score	61
Exons	2847..2960, 3578..3676, 3581..3685, 3768..3851, 3768..3854, 3772..3885, 3852..3983, 3876..3983		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o2.gp	Method	AAT/GAP
Start	3815	End	4412
GI	uC-osflcyp159e06b1	Score	712
Exons	3815..3984, 4211..4412		
GI Descrip.	'20255/emb Z11920 OSHSP82A 1.0e-17 O.sativa gene for heat shock protein 82 HSP82'		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o1.ts	Method	TBLASTX:Soybean
Start	3852	End	5269

GI	none	Score	73
Exons	3852..3983, 3856..3987, 4195..4488, 4196..4462, 4288..4476, 4760..4876, 4762..4869, 4870..4959, 4880..4960, 5061..5246, 5061..5255, 5062..5256, 5147..5269		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o1.tc	Method	TBLASTX:Cress
Start	4213	End	5273
GI	none	Score	67
Exons	4213..4488, 4214..4360, 4288..4362, 4406..4462, 4760..4876, 4762..4875, 4879..4938, 4880..4936, 5061..5246, 5063..5263, 5070..5273, 5071..5265		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o1.tw	Method	TBLASTX:Wheat
Start	4905	End	6885
GI	none	Score	69
Exons	4905..4958, 4905..4958, 4906..4959, 4906..4959, 5055..5258, 5061..5246, 5062..5259, 5235..5315, 5248..5316, 5257..5316, 6796..6885, 6797..6883		

Seq. No.	29998	Seq. ID	OJ990319_03.9819.C38
Gene No.	61837	Strand	-
Start	1037	End	7609
Name	OJ990319_03.9819.C38.o2.tm	Method	TBLASTX:Maize
Start	5070	End	5255
GI	none	Score	72
Exons	5070..5255, 5083..5250		

Seq. No.	29999	Seq. ID	OJ990319_03.9819.C39
Gene No.	61838	Strand	+
Start	747	End	2988
Name	OJ990319_03.9819.C39.o1.gs	Method	GENSCAN
Start	747	End	2988
GI	none	Score	.63
Exons	747..932, 1419..1566, 2884..2988		

Seq. No.	30000	Seq. ID	OJ990319_03.9819.C40
Gene No.	61839	Strand	+
Start	1	End	1061
Name	OJ990319_03.9819.C40.o1.np	Method	AAT/NAP
Start	1	End	820
GI	5922620	Score	140
Exons	1..81, 680..820		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	30000	Seq. ID	OJ990319_03.9819.C40
Gene No.	61839	Strand	+
Start	1	End	1061

Name OJ990319\_03.9819.C40.o1.gs  
 Start 294  
 GI none  
 Exons 294..354, 982..1061

Method GENSCAN  
 End 1061  
 Score .63

Seq. No. 30000 Seq. ID OJ990319\_03.9819.C40  
 Gene No. 61840 Strand +  
 Start 1375 End 1959  
 Name OJ990319\_03.9819.C40.o1.gp Method AAT/GAP  
 Start 1375 End 1959  
 GI 2799029 Score 838  
 Exons 1375..1959  
 GI Descrip. 2827318 1.0e-20 (AF042201) seed prolamine [Oryza sativa]

Seq. No. 30000 Seq. ID OJ990319\_03.9819.C40  
 Gene No. 61841 Strand +  
 Start 5842 End 7141  
 Name OJ990319\_03.9819.C40.o4.np Method AAT/NAP  
 Start 5842 End 7141  
 GI 6721562 Score 854  
 Exons 5842..7000, 7107..7141  
 GI Descrip. (AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]  
 gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]

Seq. No. 30000 Seq. ID OJ990319\_03.9819.C40  
 Gene No. 61842 Strand -  
 Start 959 End 2303  
 Name OJ990319\_03.9819.C40.o2.np Method AAT/NAP  
 Start 959 End 2303  
 GI 6630699 Score 74  
 Exons 959..1034, 2279..2303  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. No. 30000 Seq. ID OJ990319\_03.9819.C40  
 Gene No. 61842 Strand -  
 Start 959 End 2303  
 Name OJ990319\_03.9819.C40.o2.gs Method GENSCAN  
 Start 1487 End 1948  
 GI none Score .85  
 Exons 1487..1948

Seq. No. 30000 Seq. ID OJ990319\_03.9819.C40  
 Gene No. 61842 Strand -  
 Start 959 End 2303  
 Name OJ990319\_03.9819.C40.o3.np Method AAT/NAP  
 Start 1493 End 1948  
 GI 4126693 Score 684  
 Exons 1493..1948  
 GI Descrip. (AB016504) prolamin [Oryza sativa]  
 gi|6180118|gb|AAF05813.1|AF194115\_1 (AF194115) prolamin 7 [Oryza sativa]



Seq. No.	30000	Seq. ID	OJ990319_03.9819.C40
Gene No.	61843	Strand	
Start	6614	End	6842
Name	OJ990319_03.9819.C40.o1.tw	Method	TBLASTX:Wheat
Start	6614	End	6842
GI	none	Score	87
Exons	6614..6796, 6618..6842, 6620..6808		

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o1.np	Method	AAT/NAP
Start	1	End	3750
GI	6498441	Score	2386
Exons	1..107, 434..882, 946..1309, 1493..1626, 1801..2472, 2659..3386, 3480..3750		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o1.gs	Method	GENSCAN
Start	95	End	3644
GI	none	Score	.51
Exons	95..202, 229..531, 651..925, 1000..1309, 1501..1637, 1925..2274, 2440..2741, 2930..3644		

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o3.tw	Method	TBLASTX:Wheat
Start	316	End	951
GI	none	Score	229
Exons	316..453, 317..649, 511..666, 642..830, 646..846, 820..951		

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o1.tw	Method	TBLASTX:Wheat
Start	954	End	1406
GI	none	Score	183
Exons	954..1133, 955..1140, 1131..1406, 1154..1405		

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o1.tm	Method	TBLASTX:Maize
Start	1145	End	1430
GI	none	Score	327
Exons	1145..1420, 1146..1430		

Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o2.tm	Method	TBLASTX:Maize

Start	1502	End	1840
GI	none	Score	164
Exons	1502..1663, 1507..1668, 1652..1738, 1668..1739, 1730..1840		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o2.tw	Method	TBLASTX:Wheat
Start	1517	End	1915
GI	none	Score	185
Exons	1517..1666, 1519..1668, 1664..1735, 1665..1745, 1727..1915, 1753..1914		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o2.ts	Method	TBLASTX:Soybean
Start	1592	End	1983
GI	none	Score	88
Exons	1592..1666, 1665..1736, 1733..1915, 1912..1983		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o4.tw	Method	TBLASTX:Wheat
Start	2344	End	2793
GI	none	Score	211
Exons	2344..2568, 2412..2588, 2641..2793, 2652..2789		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o1.ts	Method	TBLASTX:Soybean
Start	2467	End	2883
GI	none	Score	78
Exons	2467..2556, 2641..2883		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o6.tw	Method	TBLASTX:Wheat
Start	2892	End	3136
GI	none	Score	97
Exons	2892..2954, 2896..2955, 2946..3122, 2954..3136		
Seq. No.	30001	Seq. ID	OJ990319_03.9819.C41
Gene No.	61844	Strand	+
Start	1	End	3750
Name	OJ990319_03.9819.C41.o5.tw	Method	TBLASTX:Wheat
Start	3143	End	3734
GI	none	Score	66
Exons	3143..3253, 3153..3596, 3154..3192, 3176..3253, 3293..3391, 3627..3734		
Seq. No.	30002	Seq. ID	OJ990319_03.9819.C42
Gene No.	61845	Strand	-
Start	713	End	2783

Name	OJ990319_03.9819.C42.o1.gs	Method	GENSCAN
Start	713	End	2164
GI	none	Score	.4
Exons	713..813, 975..1946, 1948..2164		
Seq. No.	30002	Seq. ID	OJ990319_03.9819.C42
Gene No.	61845	Strand	-
Start	713	End	2783
Name	OJ990319_03.9819.C42.o1.np	Method	AAT/NAP
Start	741	End	2783
GI	6907089	Score	694
Exons	741..1509, 1615..1730, 1845..2180, 2741..2783		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61846	Strand	+
Start	7177	End	7232
Name	OJ990319_03.9819.C44.o2.gp	Method	AAT/GAP
Start	7177	End	7232
GI	3106943	Score	87
Exons	7177..7232		
GI Descrip.	1019378/dbj D17785 RICNH4621 1.0e-104 Rice DNA for U3 small nuclear RNA, partial sequence		
Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61847	Strand	-
Start	1	End	9764
Name	OJ990319_03.9819.C44.o1.np	Method	AAT/NAP
Start	1	End	3529
GI	5852179	Score	479
Exons	1..121, 2009..2243, 2318..2520, 3509..3529		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		
Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61847	Strand	-
Start	1	End	9764
Name	OJ990319_03.9819.C44.o1.gs	Method	GENSCAN
Start	1180	End	7873
GI	none	Score	.42
Exons	1180..1193, 1830..2243, 2318..2566, 3509..3633, 3837..3939, 4006..4207, 4422..5231, 5280..5383, 5621..6674, 7060..7204, 7815..7873		
Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61847	Strand	-
Start	1	End	9764
Name	OJ990319_03.9819.C44.o2.np	Method	AAT/NAP
Start	1392	End	6674
GI	4680179	Score	3554
Exons	1392..1450, 2614..2668, 4347..6674		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61847	Strand	-
Start	1	End	9764
Name	OJ990319_03.9819.C44.o1.gp	Method	AAT/GAP
Start	4146	End	4403

GI 61605\_3.R1084 Score 434  
 Exons 4146..4403  
 GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o1.ts Method TBLASTX:Soybean  
 Start 4467 End 4670  
 GI none Score 84  
 Exons 4467..4634, 4491..4634, 4626..4670, 4638..4670

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o1.tm Method TBLASTX:Maize  
 Start 4557 End 5024  
 GI none Score 112  
 Exons 4557..5024, 4654..4953

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o1.tw Method TBLASTX:Wheat  
 Start 4611 End 5093  
 GI none Score 147  
 Exons 4611..5093, 4620..4964, 4654..4989

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o2.ts Method TBLASTX:Soybean  
 Start 4743 End 5057  
 GI none Score 59  
 Exons 4743..5057, 4744..4941

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o2.tw Method TBLASTX:Wheat  
 Start 5250 End 5672  
 GI none Score 101  
 Exons 5250..5441, 5257..5412, 5323..5463, 5463..5672, 5524..5622

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o3.tw Method TBLASTX:Wheat  
 Start 5949 End 6230  
 GI none Score 100  
 Exons 5949..6044, 6015..6230, 6103..6219

Seq. No. 30003 Seq. ID OJ990319\_03.9819.C44  
 Gene No. 61847 Strand -  
 Start 1 End 9764  
 Name OJ990319\_03.9819.C44.o3.np Method AAT/NAP

Start	6929	End	8592
GI	5042448	Score	212
Exons	6929..7176, 8539..8592		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	30003	Seq. ID	OJ990319_03.9819.C44
Gene No.	61847	Strand	-
Start	1	End	9764
Name	OJ990319_03.9819.C44.o4.np	Method	AAT/NAP
Start	7771	End	9764
GI	4680183	Score	193
Exons	7771..7860, 8466..8536, 9665..9764		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61848	Strand	+
Start	4038	End	4290
Name	OJ990409_06.9819.C1.o2.np	Method	AAT/NAP
Start	4038	End	4290
GI	2708752	Score	112
Exons	4038..4290		
GI Descrip.	(AC003952) putative histidine kinase [Arabidopsis thaliana]		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61849	Strand	+
Start	12391	End	13761
Name	OJ990409_06.9819.C1.o4.gs	Method	GENSCAN
Start	12391	End	13761
GI	none	Score	.79
Exons	12391..12604, 12972..13110, 13346..13472, 13618..13761		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61850	Strand	-
Start	1	End	3468
Name	OJ990409_06.9819.C1.o1.np	Method	AAT/NAP
Start	1	End	3468
GI	4388818	Score	2076
Exons	1..3468		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61851	Strand	-
Start	8649	End	10888
Name	OJ990409_06.9819.C1.o3.gs	Method	GENSCAN
Start	8649	End	10888
GI	none	Score	.48
Exons	8649..8882, 9793..9896, 10033..10170, 10374..10554, 10796..10888		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61852	Strand	-
Start	14810	End	18286
Name	OJ990409_06.9819.C1.o5.gs	Method	GENSCAN
Start	14810	End	18286
GI	none	Score	.67
Exons	14810..14971, 15975..16043, 16607..16717, 17975..18286		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o3.tm	Method	TBLASTX:Maize
Start	28	End	457
GI	none	Score	169
Exons	28..348, 59..334, 310..450, 380..457		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o1.tw	Method	TBLASTX:Wheat
Start	121	End	900
GI	none	Score	129
Exons	121..576, 571..900, 587..898		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o2.tm	Method	TBLASTX:Maize
Start	459	End	904
GI	none	Score	40
Exons	459..476, 463..903, 608..904		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o1.ts	Method	TBLASTX:Soybean
Start	490	End	879
GI	none	Score	121
Exons	490..879, 531..755, 587..877		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o3.tw	Method	TBLASTX:Wheat
Start	901	End	1171
GI	none	Score	182
Exons	901..1170, 902..1171		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o1.tc	Method	TBLASTX:Cress
Start	1261	End	1803
GI	none	Score	167
Exons	1261..1518, 1525..1803		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o2.ts	Method	TBLASTX:Soybean
Start	1372	End	1833
GI	none	Score	134
Exons	1372..1521, 1507..1833, 1535..1828		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o2.tw	Method	TBLASTX:Wheat
Start	1405	End	2071
GI	none	Score	40
Exons	1405..1509, 1526..1585, 1527..1586, 1609..2070, 1610..1855, 1901..2071		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o1.tm	Method	TBLASTX:Maize
Start	1585	End	2076
GI	none	Score	111
Exons	1585..2076, 1643..1945		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o4.tw	Method	TBLASTX:Wheat
Start	2746	End	3160
GI	none	Score	35
Exons	2746..2883, 2750..2833, 2857..2928, 2917..3027, 2939..3010, 3012..3140, 3013..3159, 3014..3160		

Seq. No.	30004	Seq. ID	OJ990409_06.9819.C1
Gene No.	61853	Strand	-
Start	19408	End	20565
Name	OJ990409_06.9819.C1.o6.gs	Method	GENSCAN
Start	19408	End	20565
GI	none	Score	.54
Exons	19408..19566, 20523..20565		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61854	Strand	+
Start	2062	End	4785
Name	OJ990409_06.9819.C3.o1.gs	Method	GENSCAN
Start	2062	End	4785
GI	none	Score	.86
Exons	2062..2091, 3143..3187, 4660..4785		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61855	Strand	+
Start	6614	End	24137
Name	OJ990409_06.9819.C3.o1.gp	Method	AAT/GAP
Start	6541	End	7386
GI	455_3.R1084	Score	1246
Exons	6541..6845, 6935..7150, 7236..7386		
GI Descrip.	'2129636/pir  S68410 5.0e-23 lipase - Arabidopsis thaliana >gi_1145627 (U38916) lipase [Arabidopsis thaliana]'		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61855	Strand	+
Start	6614	End	24137
Name	OJ990409_06.9819.C3.o1.np	Method	AAT/NAP
Start	6605	End	24137

GI 6691206 Score 800  
 Exons 6605..6853, 6910..7150, 7233..7661, 8667..8873, 20808..21014, 21113..21480, 21592..21884, 24044..24137  
 GI Descrip. (AC007508) F1K23.11 [Arabidopsis thaliana]

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o2.gs Method GENSCAN  
 Start 6614 End 8905  
 GI none Score .67  
 Exons 6614..6845, 6935..7150, 7236..7661, 8102..8274, 8675..8905

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o2.gp Method AAT/GAP  
 Start 8707 End 9252  
 GI none Score 846  
 Exons 8707..9015, 9066..9252

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o4.gs Method GENSCAN  
 Start 17324 End 18108  
 GI none Score .57  
 Exons 17324..17370, 17535..18108

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o5.gs Method GENSCAN  
 Start 20756 End 22797  
 GI none Score .84  
 Exons 20756..21014, 21113..21480, 21592..21880, 22726..22797

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o3.np Method AAT/NAP  
 Start 20762 End 24137  
 GI 6691210 Score 327  
 Exons 20762..21014, 21113..21453, 21565..21880, 23984..24137  
 GI Descrip. (AC007508) F1K23.15 [Arabidopsis thaliana]

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137  
 Name OJ990409\_06.9819.C3.o4.gp Method AAT/GAP  
 Start 21235 End 21618  
 GI 2310903 Score 460  
 Exons 21235..21480, 21592..21618

Seq. No. 30005 Seq. ID OJ990409\_06.9819.C3  
 Gene No. 61855 Strand +  
 Start 6614 End 24137



Name OJ990409\_06.9819.C3.o5.gp  
 Start 21235  
 GI 2310903  
 Exons 21235..21480, 21592..21620

Method AAT/GAP  
 End 21620  
 Score 464

Seq. No. 30005  
 Gene No. 61856  
 Start 9014  
 Name OJ990409\_06.9819.C3.o3.gp  
 Start 9014  
 GI 4879971  
 Exons 9014..9124

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 9124  
 Method AAT/GAP  
 End 9124  
 Score 95

Seq. No. 30005  
 Gene No. 61857  
 Start 15086  
 Name OJ990409\_06.9819.C3.o1.tm  
 Start 6682  
 GI none  
 Exons 6682..6843, 6692..6844, 6922..7152, 6935..6982, 6937..7092, 6966..7151, 7238..7360, 7262..7327, 7300..7359, 20815..20898, 20816..20914, 20825..20902, 20960..21013, 21112..21165, 21211..21315, 21355..21456

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 21912  
 Method TBLASTX:Maize  
 End 21456  
 Score 274

Seq. No. 30005  
 Gene No. 61857  
 Start 15086  
 Name OJ990409\_06.9819.C3.o1.tc  
 Start 6701  
 GI none  
 Exons 6701..6754, 6791..6844, 6922..6966, 6961..7068, 7081..7143, 7235..7663, 7660..7695, 8665..8886, 8714..8869, 20818..20898, 20819..20899, 20941..21012, 20942..21013, 21112..21159, 21340..21477, 21712..21882

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 21912  
 Method TBLASTX:Cress  
 End 21882  
 Score 62

Seq. No. 30005  
 Gene No. 61857  
 Start 15086  
 Name OJ990409\_06.9819.C3.o1.tw  
 Start 7006  
 GI none  
 Exons 7006..7143, 7098..7142, 7235..7465, 7238..7297, 21211..21342, 21271..21333, 21340..21480, 21360..21482

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 21912  
 Method TBLASTX:Wheat  
 End 21482  
 Score 90

Seq. No. 30005  
 Gene No. 61857  
 Start 15086  
 Name OJ990409\_06.9819.C3.o1.ts  
 Start 7108  
 GI none  
 Exons 7108..7143, 7229..7495, 7505..7621, 21340..21477, 21556..21675, 21724..21840

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 21912  
 Method TBLASTX:Soybean  
 End 21840  
 Score 35

Seq. No. 30005  
 Gene No. 61857  
 Start 15086  
 Name OJ990409\_06.9819.C3.o2.tm

Seq. ID OJ990409\_06.9819.C3  
 Strand -  
 End 21912  
 Method TBLASTX:Maize

Start	7361	End	21882
GI	none	Score	504
Exons	7361..7663, 7376..7465, 7408..7662, 8665..8883, 8666..8899, 8765..8902, 8785..8904, 21556..21675, 21585..21668, 21709..21882, 21711..21869		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61857	Strand	-
Start	15086	End	21912
Name	OJ990409_06.9819.C3.o2.ts	Method	TBLASTX:Soybean
Start	8686	End	8872
GI	none	Score	192
Exons	8686..8853, 8711..8872		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61857	Strand	-
Start	15086	End	21912
Name	OJ990409_06.9819.C3.o2.tw	Method	TBLASTX:Wheat
Start	8701	End	21912
GI	none	Score	187
Exons	8701..8886, 8711..8887, 21718..21765, 21769..21912		

Seq. No.	30005	Seq. ID	OJ990409_06.9819.C3
Gene No.	61857	Strand	-
Start	15086	End	21912
Name	OJ990409_06.9819.C3.o3.gs	Method	GENSCAN
Start	15086	End	15646
GI	none	Score	.88
Exons	15086..15646		

Seq. No.	30006	Seq. ID	OJ990409_06.9819.C5
Gene No.	61858	Strand	+
Start	754	End	1223
Name	OJ990409_06.9819.C5.o1.gs	Method	GENSCAN
Start	754	End	1223
GI	none	Score	.63
Exons	754..1042, 1057..1223		

Seq. No.	30007	Seq. ID	OJ990409_06.9819.C6
Gene No.	61859	Strand	+
Start	60	End	376
Name	OJ990409_06.9819.C6.o1.gs	Method	GENSCAN
Start	60	End	376
GI	none	Score	.58
Exons	60..376		

Seq. No.	30007	Seq. ID	OJ990409_06.9819.C6
Gene No.	61860	Strand	-
Start	1	End	633
Name	OJ990409_06.9819.C6.o1.np	Method	AAT/NAP
Start	1	End	633
GI	5295955	Score	395
Exons	1..78, 161..340, 367..633		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
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Gene No.	61861	Strand	+
Start	1	End	673
Name	OJ990409_06.9819.C7.ol.np	Method	AAT/NAP
Start	1	End	646
GI	5734636	Score	176
Exons	1..106, 434..646		
GI Descrip.	(AP000391) Similar to putative lipase (AC006232) [Oryza sativa]		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61861	Strand	+
Start	1	End	673
Name	OJ990409_06.9819.C7.ol.gs	Method	GENSCAN
Start	410	End	673
GI	none	Score	.47
Exons	410..673		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61862	Strand	-
Start	475	End	797
Name	OJ990409_06.9819.C7.ol.tm	Method	TBLASTX:Maize
Start	433	End	672
GI	none	Score	404
Exons	433..651, 434..667, 533..670, 553..672		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61862	Strand	-
Start	475	End	797
Name	OJ990409_06.9819.C7.ol.ts	Method	TBLASTX:Soybean
Start	433	End	640
GI	none	Score	237
Exons	433..639, 434..640		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61862	Strand	-
Start	475	End	797
Name	OJ990409_06.9819.C7.ol.tc	Method	TBLASTX:Cress
Start	434	End	654
GI	none	Score	195
Exons	434..637, 457..654		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61862	Strand	-
Start	475	End	797
Name	OJ990409_06.9819.C7.ol.tw	Method	TBLASTX:Wheat
Start	452	End	655
GI	none	Score	214
Exons	452..655, 469..654		

Seq. No.	30008	Seq. ID	OJ990409_06.9819.C7
Gene No.	61862	Strand	-
Start	475	End	797
Name	OJ990409_06.9819.C7.ol.gp	Method	AAT/GAP
Start	475	End	797
GI	none	Score	522
Exons	475..797		

Seq. No.	30009	Seq. ID	OJ990409_06.9819.C8
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Gene No.	61863	Strand	-
Start	550	End	687
Name	OJ990409_06.9819.C8.o1.gs	Method	GENSCAN
Start	550	End	687
GI	none	Score	.79
Exons	550..687		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.np	Method	AAT/NAP
Start	1	End	659
GI	6623973	Score	434
Exons	1..659		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.gs	Method	GENSCAN
Start	140	End	540
GI	none	Score	.47
Exons	140..540		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.tw	Method	TBLASTX:Wheat
Start	152	End	623
GI	none	Score	170
Exons	152..391, 201..404, 255..407, 423..623, 434..568		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.tc	Method	TBLASTX:Cress
Start	171	End	599
GI	none	Score	78
Exons	171..275, 285..422, 438..599		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.tm	Method	TBLASTX:Maize
Start	228	End	634
GI	none	Score	535
Exons	228..632, 245..631, 255..632, 446..634		
Seq. No.	30010	Seq. ID	OJ990409_06.9819.C13
Gene No.	61864	Strand	+
Start	1	End	659
Name	OJ990409_06.9819.C13.o1.ts	Method	TBLASTX:Soybean
Start	249	End	629
GI	none	Score	287
Exons	249..524, 251..511, 258..521, 534..629		

Seq. No.	30011	Seq. ID	OJ990409_06.9819.C14
Gene No.	61865	Strand	+
Start	1	End	868
Name	OJ990409_06.9819.C14.o1.np	Method	AAT/NAP
Start	1	End	840
GI	6691210	Score	186
Exons	1..181, 637..840		
GI Descrip.	(AC007508) FlK23.15 [Arabidopsis thaliana]		

Seq. No.	30011	Seq. ID	OJ990409_06.9819.C14
Gene No.	61865	Strand	+
Start	1	End	868
Name	OJ990409_06.9819.C14.o1.gs	Method	GENSCAN
Start	642	End	868
GI	none	Score	.53
Exons	642..868		

Seq. No.	30011	Seq. ID	OJ990409_06.9819.C14
Gene No.	61865	Strand	+
Start	1	End	868
Name	OJ990409_06.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	673	End	852
GI	none	Score	75
Exons	673..777, 713..850, 724..852		

Seq. No.	30012	Seq. ID	OJ990409_06.9819.C15
Gene No.	61866	Strand	-
Start	142	End	5248
Name	OJ990409_06.9819.C15.o1.gs	Method	GENSCAN
Start	142	End	5248
GI	none	Score	.91
Exons	142..373, 1019..1126, 1272..1442, 1569..1679, 2164..2265, 2741..2968, 3170..3298, 3355..3474, 3557..3903, 3979..4533, 4706..4784, 5031..5248		

Seq. No.	30012	Seq. ID	OJ990409_06.9819.C15
Gene No.	61866	Strand	-
Start	142	End	5248
Name	OJ990409_06.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	3617	End	3753
GI	none	Score	128
Exons	3617..3748, 3617..3751, 3619..3750, 3619..3753		

Seq. No.	30013	Seq. ID	OJ990409_06.9819.C16
Gene No.	61867	Strand	+
Start	9142	End	12005
Name	OJ990409_06.9819.C16.o1.np	Method	AAT/NAP
Start	7679	End	11907
GI	4559333	Score	979
Exons	7679..7714, 9370..9920, 10586..10781, 10864..11048, 11229..11562, 11657..11907		
GI Descrip.	(AC007087) unknown protein [Arabidopsis thaliana]		

Seq. No.	30013	Seq. ID	OJ990409_06.9819.C16
Gene No.	61867	Strand	+
Start	9142	End	12005
Name	OJ990409_06.9819.C16.o1.gp	Method	AAT/GAP

Start 9022  
GI none  
Exons 9022..9443

End 9443  
Score 824

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61867 Strand +  
Start 9142 End 12005  
Name OJ990409\_06.9819.C16.o2.gs Method GENSCAN  
Start 9142 End 11861  
GI none Score .8  
Exons 9142..9920, 10517..10781, 10864..11048, 11229..11562,  
11657..11861

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61867 Strand +  
Start 9142 End 12005  
Name OJ990409\_06.9819.C16.o2.gp Method AAT/GAP  
Start 11515 End 12005  
GI 56333\_1.R1084 Score 467  
Exons 11515..11562, 11657..11889, 11987..12005  
GI Descrip. '4559333/gb|AAD22995.1|AC007087\_14 2.0e-17 (AC007087) unknown  
protein [Arabidopsis thaliana]'

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61868 Strand -  
Start 439 End 5087  
Name OJ990409\_06.9819.C16.o1.gs Method GENSCAN  
Start 439 End 5087  
GI none Score .62  
Exons 439..622, 658..854, 946..1086, 1200..1518, 1862..2021,  
3125..3277, 3394..3590, 4756..5087

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61868 Strand -  
Start 439 End 5087  
Name OJ990409\_06.9819.C16.o3.tm Method TBLASTX:Maize  
Start 3193 End 3562  
GI none Score 147  
Exons 3193..3285, 3195..3278, 3395..3562

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61869 Strand +  
Start 9559 End 11866  
Name OJ990409\_06.9819.C16.o2.tc Method TBLASTX:Cress  
Start 9559 End 9921  
GI none Score 69  
Exons 9559..9618, 9703..9921

Seq. No. 30013 Seq. ID OJ990409\_06.9819.C16  
Gene No. 61869 Strand +  
Start 9559 End 11866  
Name OJ990409\_06.9819.C16.o1.tm Method TBLASTX:Maize  
Start 9820 End 11866  
GI none Score 69  
Exons 9820..9909, 11286..11552, 11287..11565, 11384..11557,  
11649..11798, 11657..11866, 11659..11862

Seq. No.	30013	Seq. ID	OJ990409_06.9819.C16
Gene No.	61869	Strand	
Start	9559	End	11866
Name	OJ990409_06.9819.C16.o2.tm	Method	TBLASTX:Maize
Start	10595	End	11040
GI	none	Score	198
Exons	10595..10723, 10602..10784, 10864..11040, 10864..11037		10602..10769, 10863..11036,

Seq. No.	30013	Seq. ID	OJ990409_06.9819.C16
Gene No.	61869	Strand	
Start	9559	End	11866
Name	OJ990409_06.9819.C16.o1.ts	Method	TBLASTX:Soybean
Start	10641	End	11731
GI	none	Score	100
Exons	10641..10784, 11227..11565, 11659..11730		11286..11552, 11657..11731,

Seq. No.	30013	Seq. ID	OJ990409_06.9819.C16
Gene No.	61869	Strand	
Start	9559	End	11866
Name	OJ990409_06.9819.C16.o1.tc	Method	TBLASTX:Cress
Start	11214	End	11761
GI	none	Score	331
Exons	11214..11552, 11215..11565, 11656..11757, 11657..11761		11224..11586, 11654..11755,

Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61870	Strand	+
Start	297	End	946
Name	OJ990409_06.9819.C17.o1.gp	Method	AAT/GAP
Start	297	End	946
GI	56333_1.R1084	Score	1014
Exons	297..433, 517..946		
GI Descrip.	'4559333/gb AAD22995.1 AC007087_14 2.0e-17 (AC007087) unknown protein [Arabidopsis thaliana]'		

Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61870	Strand	+
Start	297	End	946
Name	OJ990409_06.9819.C17.o1.gs	Method	GENSCAN
Start	327	End	669
GI	none	Score	.98
Exons	327..433, 517..669		

Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61870	Strand	+
Start	297	End	946
Name	OJ990409_06.9819.C17.o1.np	Method	AAT/NAP
Start	327	End	666
GI	6735379	Score	172
Exons	327..418, 517..666		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61871	Strand	-
Start	1280	End	1513

Name	OJ990409_06.9819.C17.o2.gs	Method	GENSCAN
Start	1280	End	1513
GI	none	Score	.99
Exons	1280..1513		
Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61872	Strand	-
Start	2557	End	3018
Name	OJ990409_06.9819.C17.o3.gs	Method	GENSCAN
Start	2557	End	3018
GI	none	Score	1
Exons	2557..3018		
Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61873	Strand	-
Start	3186	End	3396
Name	OJ990409_06.9819.C17.o1.tm	Method	TBLASTX:Maize
Start	298	End	660
GI	none	Score	119
Exons	298..435, 326..436, 499..660, 502..639, 513..656		
Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61873	Strand	-
Start	3186	End	3396
Name	OJ990409_06.9819.C17.o1.tc	Method	TBLASTX:Cress
Start	334	End	660
GI	none	Score	95
Exons	334..435, 335..436, 514..633, 517..660		
Seq. No.	30014	Seq. ID	OJ990409_06.9819.C17
Gene No.	61873	Strand	-
Start	3186	End	3396
Name	OJ990409_06.9819.C17.o2.gp	Method	AAT/GAP
Start	3186	End	3396
GI	3769279	Score	398
Exons	3186..3396		
GI Descrip.	5777612/emb AJ245900.1 OSA245900 1.0e-13 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome		
Seq. No.	30015	Seq. ID	OJ990409_06.9819.C18
Gene No.	61874	Strand	+
Start	6147	End	6240
Name	OJ990409_06.9819.C18.o1.gp	Method	AAT/GAP
Start	6147	End	6240
GI	69953_1.R1084	Score	122
Exons	6147..6240		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		
Seq. No.	30015	Seq. ID	OJ990409_06.9819.C18
Gene No.	61875	Strand	-
Start	4457	End	5690
Name	OJ990409_06.9819.C18.o2.gs	Method	GENSCAN
Start	4457	End	5690
GI	none	Score	.45
Exons	4457..4488, 5634..5690		



Seq. No.	30016	Seq. ID	OJ990409_06.9819.C19
Gene No.	61876	Strand	+
Start	832	End	989
Name	OJ990409_06.9819.C19.o1.gs	Method	GENSCAN
Start	832	End	989
GI	none	Score	.54
Exons	832..989		

Seq. No.	30016	Seq. ID	OJ990409_06.9819.C19
Gene No.	61877	Strand	
Start	1204	End	1882
Name	OJ990409_06.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	1204	End	1882
GI	none	Score	105
Exons	1204..1392, 1207..1431, 1211..1420, 1267..1395, 1271..1435, 1273..1392, 1274..1381, 1289..1480, 1297..1389, 1432..1614, 1450..1479, 1483..1599, 1492..1608, 1493..1606, 1493..1612, 1493..1609, 1500..1610, 1501..1614, 1507..1617, 1598..1789, 1642..1764, 1645..1776, 1655..1789, 1656..1790, 1662..1787, 1663..1764, 1665..1790, 1669..1794, 1669..1794, 1753..1848, 1793..1882, 1802..1882, 1817..1882		

Seq. No.	30017	Seq. ID	OJ990409_06.9819.C20
Gene No.	61878	Strand	+
Start	152	End	325
Name	OJ990409_06.9819.C20.o1.gs	Method	GENSCAN
Start	152	End	325
GI	none	Score	.83
Exons	152..325		

Seq. No.	30018	Seq. ID	OJ990409_06.9819.C21
Gene No.	61879	Strand	-
Start	262	End	550
Name	OJ990409_06.9819.C21.o1.gs	Method	GENSCAN
Start	262	End	550
GI	none	Score	.76
Exons	262..399, 454..550		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61880	Strand	+
Start	6411	End	12430
Name	OJ990409_06.9819.C22.o1.gp	Method	AAT/GAP
Start	6356	End	10071
GI	23986_1.R1084	Score	2193
Exons	6356..6452, 6770..6934, 7119..7267, 7679..7952, 9594..10071		
GI Descrip.	'5734636/dbj BAA83367.1  6.0e-51 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61880	Strand	+
Start	6411	End	12430
Name	OJ990409_06.9819.C22.o1.np	Method	AAT/NAP
Start	6399	End	9812
GI	6691210	Score	594
Exons	6399..6648, 6728..6934, 7113..7267, 7679..7956, 9595..9812		
GI Descrip.	(AC007508) FlK23.15 [Arabidopsis thaliana]		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61880	Strand	+
Start	6411	End	12430
Name	OJ990409_06.9819.C22.o3.gs	Method	GENSCAN
Start	6411	End	12430
GI	none	Score	.41
Exons	6411..6648, 6728..6934, 7119..7267, 7679..7952, 9594..9613, 10881..11480, 12005..12307, 12389..12430		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61881	Strand	-
Start	4544	End	5263
Name	OJ990409_06.9819.C22.o2.gs	Method	GENSCAN
Start	4544	End	5263
GI	none	Score	.42
Exons	4544..4720, 5255..5263		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o1.tm	Method	TBLASTX:Maize
Start	6477	End	9861
GI	none	Score	119
Exons	6477..6545, 6479..6544, 6539..6646, 6540..6647, 6721..6930, 6726..6929, 7117..7272, 7118..7267, 7676..7855, 7687..7770, 7688..7855, 7821..7868, 7850..7951, 7851..7922, 7853..7954, 7864..7956, 9586..9861, 9593..9811		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o1.tw	Method	TBLASTX:Wheat
Start	6477	End	6893
GI	none	Score	294
Exons	6477..6647, 6479..6646, 6721..6891, 6726..6893, 6840..6893		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o2.ts	Method	TBLASTX:Soybean
Start	6483	End	6855
GI	none	Score	71
Exons	6483..6533, 6497..6532, 6572..6643, 6573..6647, 6765..6848, 6766..6855		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o3.ts	Method	TBLASTX:Soybean
Start	7118	End	7915
GI	none	Score	110
Exons	7118..7252, 7664..7915, 7681..7767		

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o1.tc	Method	TBLASTX:Cress

Start	7682	End	9799
GI	none	Score	105
Exons	7682..7789, 7796..7927, 9628..9798, 9638..9799		

  

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o2.tw	Method	TBLASTX:Wheat
Start	7790	End	9806
GI	none	Score	113
Exons	7790..7960, 9588..9650, 9589..9801, 9611..9805, 9616..9801, 9719..9805, 9741..9806		

  

Seq. No.	30019	Seq. ID	OJ990409_06.9819.C22
Gene No.	61882	Strand	
Start	6477	End	9861
Name	OJ990409_06.9819.C22.o1.ts	Method	TBLASTX:Soybean
Start	9628	End	9819
GI	none	Score	204
Exons	9628..9819, 9629..9802		

  

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.np	Method	AAT/NAP
Start	457	End	1491
GI	130582	Score	858
Exons	457..1491		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		

  

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.tm	Method	TBLASTX:Maize
Start	463	End	885
GI	none	Score	306
Exons	463..885, 467..868		

  

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.tc	Method	TBLASTX:Cress
Start	463	End	1056
GI	none	Score	59
Exons	463..675, 691..828, 838..942, 937..1056		

  

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.ts	Method	TBLASTX:Soybean
Start	466	End	864
GI	none	Score	148
Exons	466..579, 589..864, 592..855, 602..862		

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.tw	Method	TBLASTX:Wheat
Start	490	End	961
GI	none	Score	50
Exons	490..690, 545..679, 706..858, 709..912, 722..961		

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o1.gs	Method	GENSCAN
Start	573	End	1338
GI	none	Score	.74
Exons	573..1338		

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o2.tm	Method	TBLASTX:Maize
Start	936	End	1387
GI	none	Score	73
Exons	936..1187, 941..1252, 949..1266, 977..1252, 1228..1386, 1298..1387		

Seq. No.	30020	Seq. ID	OJ990409_06.9819.C23
Gene No.	61883	Strand	-
Start	457	End	1491
Name	OJ990409_06.9819.C23.o2.tw	Method	TBLASTX:Wheat
Start	1039	End	1383
GI	none	Score	233
Exons	1039..1383		

Seq. No.	30021	Seq. ID	OJ990409_06.9819.C25
Gene No.	61884	Strand	+
Start	88	End	1740
Name	OJ990409_06.9819.C25.o1.gs	Method	GENSCAN
Start	88	End	1740
GI	none	Score	.63
Exons	88..213, 1094..1312, 1574..1740		

Seq. No.	30021	Seq. ID	OJ990409_06.9819.C25
Gene No.	61884	Strand	+
Start	88	End	1740
Name	OJ990409_06.9819.C25.o1.tm	Method	TBLASTX:Maize
Start	1089	End	1648
GI	none	Score	291
Exons	1089..1310, 1090..1311, 1091..1315, 1091..1312, 1573..1647, 1574..1648		

Seq. No.	30022	Seq. ID	OJ990409_06.9819.C27
Gene No.	61885	Strand	-
Start	850	End	1050
Name	OJ990409_06.9819.C27.o1.gs	Method	GENSCAN
Start	850	End	1050
GI	none	Score	.89
Exons	850..1050		

Seq. No.	30023	Seq. ID	OJ990409_06.9819.C28
Gene No.	61886	Strand	+
Start	53	End	170
Name	OJ990409_06.9819.C28.o1.gs	Method	GENSCAN
Start	53	End	170
GI	none	Score	.82
Exons	53..170		

Seq. No.	30024	Seq. ID	OJ990409_06.9819.C30
Gene No.	61887	Strand	+
Start	1066	End	1187
Name	OJ990409_06.9819.C30.o1.gs	Method	GENSCAN
Start	1066	End	1187
GI	none	Score	.56
Exons	1066..1187		

Seq. No.	30025	Seq. ID	OJ990409_06.9819.C32
Gene No.	61888	Strand	-
Start	1	End	723
Name	OJ990409_06.9819.C32.o1.np	Method	AAT/NAP
Start	1	End	723
GI	4559333	Score	322
Exons	1..69, 207..723		
GI Descrip.	(AC007087) unknown protein [Arabidopsis thaliana]		

Seq. No.	30025	Seq. ID	OJ990409_06.9819.C32
Gene No.	61888	Strand	-
Start	1	End	723
Name	OJ990409_06.9819.C32.o1.tc	Method	TBLASTX:Cress
Start	242	End	605
GI	none	Score	69
Exons	242..460, 546..605		

Seq. No.	30025	Seq. ID	OJ990409_06.9819.C32
Gene No.	61888	Strand	-
Start	1	End	723
Name	OJ990409_06.9819.C32.o1.gs	Method	GENSCAN
Start	243	End	508
GI	none	Score	.69
Exons	243..508		

Seq. No.	30026	Seq. ID	OJ990409_06.9819.C36
Gene No.	61889	Strand	+
Start	1	End	275
Name	OJ990409_06.9819.C36.o1.gp	Method	AAT/GAP
Start	1	End	275
GI	23986 1.R1084	Score	450
Exons	1..275		
GI Descrip.	'5734636/dbj BAA83367.1  6.0e-51 (AP000391) Similar to putative lipase (AC006232) [Oryza sativa]'		

Seq. No.	30027	Seq. ID	OJ990409_02.9819.C1
Gene No.	61890	Strand	+
Start	829	End	6908
Name	OJ990409_02.9819.C1.o1.np	Method	AAT/NAP
Start	829	End	6898

GI 6723390 Score 730  
 Exons 829..879, 1782..1962, 2060..2655, 4733..4823, 5247..5323, 5463..5678, 6077..6214, 6741..6898  
 GI Descrip. (AL132956) putative protein [Arabidopsis thaliana]

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61890 Strand +  
 Start 829 End 6908  
 Name OJ990409\_02.9819.C1.o1.gs Method GENSCAN  
 Start 1674 End 6908  
 GI none Score .87  
 Exons 1674..1949, 2053..2655, 3348..3800, 4733..4799, 5247..5323, 5463..5678, 6077..6214, 6741..6908

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61891 Strand +  
 Start 11155 End 15549  
 Name OJ990409\_02.9819.C1.o2.gs Method GENSCAN  
 Start 11155 End 15541  
 GI none Score .94  
 Exons 11155..11218, 12609..12931, 13036..13638, 14353..14419, 14845..14972, 15367..15504, 15536..15541

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61891 Strand +  
 Start 11155 End 15549  
 Name OJ990409\_02.9819.C1.o3.np Method AAT/NAP  
 Start 12649 End 15516  
 GI 6723391 Score 651  
 Exons 12649..12726, 12791..12935, 13028..13638, 14353..14464, 14546..14622, 14757..14972, 15367..15516  
 GI Descrip. (AL132956) putative protein [Arabidopsis thaliana]

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61891 Strand +  
 Start 11155 End 15549  
 Name OJ990409\_02.9819.C1.o2.gp Method AAT/GAP  
 Start 15081 End 15549  
 GI LIB3431-056-P1-N1-H6 Score 852  
 Exons 15081..15549  
 GI Descrip. '3128206 8.0e-52 (AC004077) unknown protein [Arabidopsis thaliana]'

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61892 Strand +  
 Start 15980 End 16689  
 Name OJ990409\_02.9819.C1.o4.np Method AAT/NAP  
 Start 15971 End 16689  
 GI 6815052 Score 416  
 Exons 15971..16132, 16214..16289, 16571..16689  
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 30027 Seq. ID OJ990409\_02.9819.C1  
 Gene No. 61892 Strand +  
 Start 15980 End 16689  
 Name OJ990409\_02.9819.C1.o3.gs Method GENSCAN  
 Start 15980 End 16649

GI	none	Score	.82
Exons	15980..16289, 16571..16649		
Seq. No.	30027	Seq. ID	OJ990409_02.9819.C1
Gene No.	61893	Strand	-
Start	5787	End	7477
Name	OJ990409_02.9819.C1.o1.gp	Method	AAT/GAP
Start	5787	End	7477
GI	LIB3431-056-P1-N1-H6	Score	859
Exons	5787..6222, 7429..7477		
GI Descrip.	'3128206 8.0e-52 (AC004077) unknown protein [Arabidopsis thaliana]'		
Seq. No.	30027	Seq. ID	OJ990409_02.9819.C1
Gene No.	61894	Strand	-
Start	7471	End	13302
Name	OJ990409_02.9819.C1.o1.tc	Method	TBLASTX:Cress
Start	2062	End	13302
GI	none	Score	75
Exons	2062..2136, 2134..2319, 2202..2312, 13045..13119, 13117..13302, 13185..13295		
Seq. No.	30027	Seq. ID	OJ990409_02.9819.C1
Gene No.	61894	Strand	-
Start	7471	End	13302
Name	OJ990409_02.9819.C1.o2.np	Method	AAT/NAP
Start	7471	End	7925
GI	3128206	Score	89
Exons	7471..7572, 7827..7925		
GI Descrip.	(AC004077) unknown protein [Arabidopsis thaliana]		
Seq. No.	30028	Seq. ID	OJ990409_02.9819.C2
Gene No.	61895	Strand	+
Start	492	End	659
Name	OJ990409_02.9819.C2.o1.gs	Method	GENSCAN
Start	492	End	659
GI	none	Score	.6
Exons	492..659		
Seq. No.	30028	Seq. ID	OJ990409_02.9819.C2
Gene No.	61895	Strand	+
Start	492	End	659
Name	OJ990409_02.9819.C2.o1.np	Method	AAT/NAP
Start	492	End	653
GI	6723391	Score	71
Exons	492..653		
GI Descrip.	(AL132956) putative protein [Arabidopsis thaliana]		
Seq. No.	30028	Seq. ID	OJ990409_02.9819.C2
Gene No.	61896	Strand	-
Start	951	End	1943
Name	OJ990409_02.9819.C2.o2.np	Method	AAT/NAP
Start	948	End	1943
GI	3128206	Score	107
Exons	948..1046, 1345..1446, 1872..1943		
GI Descrip.	(AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	30028	Seq. ID	OJ990409_02.9819.C2
Gene No.	61896	Strand	-
Start	951	End	1943
Name	OJ990409_02.9819.C2.o2.gs	Method	GENSCAN
Start	951	End	1759
GI	none	Score	.99
Exons	951..1046, 1348..1446, 1691..1759		

Seq. No.	30029	Seq. ID	OJ990409_02.9819.C5
Gene No.	61897	Strand	+
Start	571	End	627
Name	OJ990409_02.9819.C5.o1.gs	Method	GENSCAN
Start	571	End	627
GI	none	Score	.5
Exons	571..627		

Seq. No.	30030	Seq. ID	OJ990409_02.9819.C6
Gene No.	61898	Strand	-
Start	485	End	541
Name	OJ990409_02.9819.C6.o1.gs	Method	GENSCAN
Start	485	End	541
GI	none	Score	.62
Exons	485..541		

Seq. No.	30031	Seq. ID	OJ990409_02.9819.C7
Gene No.	61899	Strand	+
Start	460	End	615
Name	OJ990409_02.9819.C7.o1.gs	Method	GENSCAN
Start	460	End	615
GI	none	Score	.94
Exons	460..615		

Seq. No.	30032	Seq. ID	OJ990409_02.9819.C8
Gene No.	61900	Strand	-
Start	363	End	779
Name	OJ990409_02.9819.C8.o1.gs	Method	GENSCAN
Start	363	End	779
GI	none	Score	.96
Exons	363..437, 717..779		

Seq. No.	30033	Seq. ID	OJ990409_02.9819.C9
Gene No.	61901	Strand	-
Start	228	End	784
Name	OJ990409_02.9819.C9.o1.gs	Method	GENSCAN
Start	228	End	395
GI	none	Score	.93
Exons	228..395		

Seq. No.	30033	Seq. ID	OJ990409_02.9819.C9
Gene No.	61901	Strand	-
Start	228	End	784
Name	OJ990409_02.9819.C9.o1.np	Method	AAT/NAP
Start	234	End	784
GI	6723391	Score	74
Exons	234..395, 702..784		
GI Descrip.	(AL132956) putative protein [Arabidopsis thaliana]		



Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61902	Strand	+
Start	1	End	14357
Name	OJ990409_02.9819.C11.o1.np	Method	AAT/NAP
Start	1	End	14357
GI	6671947	Score	2803
Exons	1..575, 648..866, 942..1050, 1149..1264, 1882..1980, 2851..2960, 3667..3741, 4774..4852, 4937..5083, 5155..5235, 5318..5437, 6584..6706, 8488..8565, 8699..8787, 8895..9003, 9098..9166, 9275..9385, 11037..11092, 11198..11375, 11459..11560, 11638..11709, 11776..11852, 12570..12699, 13704..13829, 14002..14085, 14160..14243, 14319..14357		
GI Descrip.	(AC016795) putative ubiquitin carboxyl-terminal hydrolase [Arabidopsis thaliana]		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61902	Strand	+
Start	1	End	14357
Name	OJ990409_02.9819.C11.o1.gs	Method	GENSCAN
Start	373	End	14267
GI	none	Score	.86
Exons	373..575, 735..866, 942..1050, 1149..1264, 1882..1980, 2851..2960, 4774..4852, 4937..5083, 5318..5437, 6584..6706, 8636..8787, 8895..9003, 9275..9385, 11037..11092, 11198..11375, 11459..11560, 11638..11709, 12283..12345, 12625..12699, 13713..13829, 14160..14267		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61902	Strand	+
Start	1	End	14357
Name	OJ990409_02.9819.C11.o1.gp	Method	AAT/GAP
Start	11776	End	13754
GI	2311230	Score	416
Exons	11776..11841, 12283..12345, 12625..12699, 13713..13754		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o1.tm	Method	TBLASTX:Maize
Start	332	End	4987
GI	none	Score	43
Exons	332..367, 332..373, 336..389, 359..574, 369..575, 381..575, 392..577, 394..576, 647..799, 648..866, 945..1049, 950..1048, 1133..1264, 1138..1266, 1149..1268, 1878..1976, 1879..1983, 1881..1976, 2845..2949, 2851..2958, 3665..3745, 4736..4852, 4760..4855, 4777..4854, 4934..4987		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o1.tc	Method	TBLASTX:Cress
Start	375	End	818
GI	none	Score	311
Exons	375..575, 381..575, 383..607, 646..816, 647..802, 648..818		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+

Start	19943	End	21772
Name	OJ990409_02.9819.C11.o3.ts	Method	TBLASTX:Soybean
Start	488	End	818
GI	none	Score	160
Exons	488..607, 489..575, 491..577, 646..816, 647..817, 648..818		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o2.tc	Method	TBLASTX:Cress
Start	819	End	1968
GI	none	Score	77
Exons	819..866, 936..1049, 936..1049, 1133..1264, 1142..1264, 1147..1266, 1158..1283, 1876..1968, 1879..1968		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o2.ts	Method	TBLASTX:Soybean
Start	819	End	5091
GI	none	Score	77
Exons	819..866, 819..872, 935..1048, 936..1049, 936..1025, 950..1048, 1133..1264, 1142..1264, 1147..1266, 1158..1271, 1875..1979, 1875..1979, 1879..1983, 2851..2958, 2901..2951, 3665..3745, 4760..4855, 4774..4851, 4934..5083, 4936..5091		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o4.tc	Method	TBLASTX:Cress
Start	2851	End	5092
GI	none	Score	171
Exons	2851..2958, 2901..2960, 3664..3747, 3665..3745, 4759..4851, 4760..4855, 4934..5092, 4936..5091		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o3.tm	Method	TBLASTX:Maize
Start	4988	End	8982
GI	none	Score	143
Exons	4988..5092, 4988..5077, 4990..5091, 5135..5233, 5152..5238, 5152..5229, 5156..5242, 5317..5412, 5318..5437, 5318..5446, 5322..5438, 6582..6707, 6583..6756, 6587..6718, 8750..8785, 8750..8785, 8751..8786, 8893..8973, 8895..8978, 8896..8982		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o1.ts	Method	TBLASTX:Soybean
Start	5309	End	14360
GI	none	Score	93
Exons	5309..5386, 5316..5387, 5317..5400, 5327..5398, 6583..6699, 6587..6733, 8490..8549, 8708..8788, 8711..8785, 8893..9003, 8898..8969, 9096..9134, 9097..9138, 9097..9165, 9098..9193, 9272..9307, 9329..9388, 11034..11093, 11180..11269, 11208..11375, 11214..11378, 11455..11547, 11456..11575,		

11456..11572, 11632..11712, 11635..11712, 11773..11847,  
11775..11843, 12622..12684, 13698..13853, 13727..13822,  
13993..14031, 14040..14075, 14041..14082, 14160..14243,  
14162..14239, 14316..14360

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o5.tc	Method	TBLASTX:Cress
Start	6602	End	9169
GI	none	Score	157
Exons	6602..6718, 8488..8553, 8708..8785, 8708..8776, 8893..9003, 8896..9003, 9091..9129, 9098..9169		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o3.tc	Method	TBLASTX:Cress
Start	11034	End	14360
GI	none	Score	56
Exons	11034..11093, 11211..11375, 11214..11375, 11456..11575, 11458..11562, 11773..11847, 12622..12693, 13716..13829, 13727..13825, 13993..14031, 14040..14081, 14041..14082, 14150..14224, 14160..14243, 14316..14360		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o2.tm	Method	TBLASTX:Maize
Start	11040	End	14367
GI	none	Score	71
Exons	11040..11093, 11198..11374, 11198..11359, 11211..11378, 11214..11378, 11257..11421, 11456..11563, 11458..11559, 11632..11712, 11632..11697, 11640..11711, 11696..11752, 11774..11851, 11774..11851, 12608..12682, 12616..12720, 12624..12683, 13693..13821, 13710..13823, 13713..13829, 13727..13828, 14040..14081, 14041..14079, 14155..14232, 14158..14226, 14160..14240, 14165..14239, 14304..14366, 14316..14366, 14317..14367		

Seq. No.	30034	Seq. ID	OJ990409_02.9819.C11
Gene No.	61903	Strand	+
Start	19943	End	21772
Name	OJ990409_02.9819.C11.o3.gs	Method	GENSCAN
Start	19943	End	21772
GI	none	Score	.4
Exons	19943..20467, 21668..21772		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61904	Strand	+
Start	1	End	9990
Name	OJ990409_02.9819.C12.o2.np	Method	AAT/NAP
Start	1	End	5513
GI	3063709	Score	491
Exons	1..21, 3561..3863, 3906..4120, 5333..5513		
GI Descrip.	(AL022537) putative protein [Arabidopsis thaliana]		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61904	Strand	+
Start	1	End	9990
Name	OJ990409_02.9819.C12.o2.gs	Method	GENSCAN
Start	3561	End	9990
GI	none	Score	.7
Exons	3561..4120, 5333..5500, 6342..6387, 6828..6949, 7977..8156, 8721..9017, 9237..9990		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61904	Strand	+
Start	1	End	9990
Name	OJ990409_02.9819.C12.o3.np	Method	AAT/NAP
Start	9298	End	9986
GI	5902368	Score	353
Exons	9298..9684, 9715..9986		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana]		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61905	Strand	+
Start	11138	End	11616
Name	OJ990409_02.9819.C12.o3.gs	Method	GENSCAN
Start	11138	End	11616
GI	none	Score	.58
Exons	11138..11207, 11558..11616		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61906	Strand	-
Start	1	End	1712
Name	OJ990409_02.9819.C12.o1.np	Method	AAT/NAP
Start	1	End	1712
GI	4510379	Score	290
Exons	1..70, 353..575, 1501..1712		
GI Descrip.	(AC007017) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61906	Strand	-
Start	1	End	1712
Name	OJ990409_02.9819.C12.o1.gs	Method	GENSCAN
Start	191	End	1712
GI	none	Score	.78
Exons	191..575, 1501..1712		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61907	Strand	-
Start	1970	End	2051
Name	OJ990409_02.9819.C12.o1.gp	Method	AAT/GAP
Start	1970	End	2051
GI	5455354	Score	88
Exons	1970..2051		
GI Descrip.	6016845/dbj AP000570.1 AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61908	Strand	-
Start	12395	End	13578
Name	OJ990409_02.9819.C12.o4.gs	Method	GENSCAN

Start 12395  
 GI none  
 Exons 12395..12534, 13557..13578

End 13578  
 Score .78

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o1.tm Method TBLASTX:Maize  
 Start 115 End 1833  
 GI none Score 101  
 Exons 115..159, 184..321, 191..289, 241..552, 290..568, 291..578,  
 291..575, 1500..1616, 1501..1611, 1695..1715, 1696..1716,  
 1741..1833

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o2.tm Method TBLASTX:Maize  
 Start 3705 End 4015  
 GI none Score 169  
 Exons 3705..3872, 3705..3866, 3764..3871, 3915..4010, 3921..4013,  
 3923..4015

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o4.tm Method TBLASTX:Maize  
 Start 5317 End 5505  
 GI none Score 248  
 Exons 5317..5487, 5318..5488, 5319..5489, 5328..5489, 5329..5505

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o1.tc Method TBLASTX:Cress  
 Start 5333 End 5498  
 GI none Score 230  
 Exons 5333..5479, 5334..5498

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o2.ts Method TBLASTX:Soybean  
 Start 5333 End 5506  
 GI none Score 208  
 Exons 5333..5506, 5334..5495

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -  
 Start 18361 End 18864  
 Name OJ990409\_02.9819.C12.o5.tm Method TBLASTX:Maize  
 Start 9312 End 9573  
 GI none Score 181  
 Exons 9312..9428, 9313..9447, 9520..9573, 9522..9572

Seq. No. 30035 Seq. ID OJ990409\_02.9819.C12  
 Gene No. 61909 Strand -

Start	18361	End	18864
Name	OJ990409_02.9819.C12.o1.ts	Method	TBLASTX:Soybean
Start	9313	End	9882
GI	none	Score	78
Exons	9313..9408, 9315..9407, 9520..9627, 9724..9759, 9796..9882		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61909	Strand	-
Start	18361	End	18864
Name	OJ990409_02.9819.C12.o2.tc	Method	TBLASTX:Cress
Start	9313	End	9789
GI	none	Score	95
Exons	9313..9408, 9315..9407, 9520..9627, 9522..9605, 9724..9789		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61909	Strand	-
Start	18361	End	18864
Name	OJ990409_02.9819.C12.o3.tm	Method	TBLASTX:Maize
Start	9574	End	9966
GI	none	Score	48
Exons	9574..9627, 9705..9839, 9706..9765, 9760..9966, 9786..9917, 9805..9963		

Seq. No.	30035	Seq. ID	OJ990409_02.9819.C12
Gene No.	61909	Strand	-
Start	18361	End	18864
Name	OJ990409_02.9819.C12.o4.np	Method	AAT/NAP
Start	18361	End	18864
GI	5921832	Score	283
Exons	18361..18864		
GI Descrip.	COPPER TRANSPORTER 1 gi 1082054 emb CAA90018  (Z49859) copper transporter protein [Arabidopsis thaliana]		

Seq. No.	30036	Seq. ID	OJ990409_02.9819.C13
Gene No.	61910	Strand	+
Start	705	End	3038
Name	OJ990409_02.9819.C13.o1.gs	Method	GENSCAN
Start	705	End	3038
GI	none	Score	.42
Exons	705..885, 1708..1859, 2016..2457, 2569..2688, 2793..3038		

Seq. No.	30036	Seq. ID	OJ990409_02.9819.C13
Gene No.	61911	Strand	-
Start	1934	End	2218
Name	OJ990409_02.9819.C13.o1.gp	Method	AAT/GAP
Start	1934	End	2218
GI	18478_1.R1084	Score	526
Exons	1934..2218		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	30036	Seq. ID	OJ990409_02.9819.C13
Gene No.	61912	Strand	-
Start	2293	End	2814
Name	OJ990409_02.9819.C13.o1.np	Method	AAT/NAP
Start	2293	End	2814
GI	5921832	Score	297

Exons 2293..2814  
 GI Descrip. COPPER TRANSPORTER 1 gi|1082054|emb|CAA90018| (Z49859) copper transporter protein [Arabidopsis thaliana]

Seq. No. 30036 Seq. ID OJ990409\_02.9819.C13  
 Gene No. 61913 Strand -  
 Start 4147 End 8444  
 Name OJ990409\_02.9819.C13.o2.np Method AAT/NAP  
 Start 4147 End 8444  
 GI 6815052 Score 1963  
 Exons 4147..4265, 4547..4622, 4704..5401, 5450..5585, 6368..6460, 7342..7441, 7736..7853, 8135..8210, 8292..8444  
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 30036 Seq. ID OJ990409\_02.9819.C13  
 Gene No. 61913 Strand -  
 Start 4147 End 8444  
 Name OJ990409\_02.9819.C13.o1.tw Method TBLASTX:Wheat  
 Start 5640 End 6134  
 GI none Score 87  
 Exons 5640..6110, 5640..6134

Seq. No. 30036 Seq. ID OJ990409\_02.9819.C13  
 Gene No. 61913 Strand -  
 Start 4147 End 8444  
 Name OJ990409\_02.9819.C13.o3.gs Method GENSCAN  
 Start 6988 End 8444  
 GI none Score .59  
 Exons 6988..7079, 8135..8444

Seq. No. 30037 Seq. ID OJ990409\_02.9819.C14  
 Gene No. 61914 Strand +  
 Start 69 End 3397  
 Name OJ990409\_02.9819.C14.o1.gp Method AAT/GAP  
 Start 69 End 2194  
 GI 29662\_1.R1084 Score 990  
 Exons 69..368, 904..990, 2069..2194  
 GI Descrip. '3128206-8.0e-52 (AC004077) unknown protein [Arabidopsis thaliana]'

Seq. No. 30037 Seq. ID OJ990409\_02.9819.C14  
 Gene No. 61914 Strand +  
 Start 69 End 3397  
 Name OJ990409\_02.9819.C14.o1.gs Method GENSCAN  
 Start 93 End 3211  
 GI none Score .74  
 Exons 93..368, 534..587, 2069..2137, 2273..2395, 3002..3211

Seq. No. 30037 Seq. ID OJ990409\_02.9819.C14  
 Gene No. 61914 Strand +  
 Start 69 End 3397  
 Name OJ990409\_02.9819.C14.o1.np Method AAT/NAP  
 Start 107 End 3208  
 GI 4490313 Score 633  
 Exons 107..368, 904..990, 2069..2229, 2270..2395, 3041..3208  
 GI Descrip. (AL035678) putative protein [Arabidopsis thaliana]

Seq. No.	30037	Seq. ID	OJ990409_02.9819.C14
Gene No.	61914	Strand	+
Start	69	End	3397
Name	OJ990409_02.9819.C14.o2.gp	Method	AAT/GAP
Start	2339	End	3397
GI	5607601	Score	818
Exons	2339..2395, 3002..3397		
GI Descrip.	4490313/emb CAB38804.1  2.0e-13 (AL035678) putative protein [Arabidopsis thaliana]		

Seq. No.	30037	Seq. ID	OJ990409_02.9819.C14
Gene No.	61915	Strand	-
Start	4010	End	4889
Name	OJ990409_02.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	257	End	3223
GI	none	Score	189
Exons	257..358, 258..374, 282..371, 295..372, 874..996, 903..1013, 903..998, 2066..2194, 2066..2194, 2068..2241, 2269..2394, 2270..2404, 2271..2396, 2968..3075, 2999..3223, 3002..3211		

Seq. No.	30037	Seq. ID	OJ990409_02.9819.C14
Gene No.	61915	Strand	-
Start	4010	End	4889
Name	OJ990409_02.9819.C14.o2.gs	Method	GENSCAN
Start	4010	End	4889
GI	none	Score	.61
Exons	4010..4072, 4219..4390, 4592..4889		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61916	Strand	+
Start	273	End	4391
Name	OJ990409_02.9819.C15.o1.np	Method	AAT/NAP
Start	273	End	1660
GI	2832643	Score	910
Exons	273..334, 512..739, 779..1071, 1102..1519, 1547..1660		
GI Descrip.	(AL021710) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61916	Strand	+
Start	273	End	4391
Name	OJ990409_02.9819.C15.o1.gs	Method	GENSCAN
Start	473	End	4391
GI	none	Score	.42
Exons	473..1615, 4164..4391		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61917	Strand	+
Start	6541	End	11009
Name	OJ990409_02.9819.C15.o2.gs	Method	GENSCAN
Start	6541	End	10994
GI	none	Score	.45
Exons	6541..6575, 7381..7528, 9393..10994		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61917	Strand	+
Start	6541	End	11009
Name	OJ990409_02.9819.C15.o2.np	Method	AAT/NAP



Start	9444	End	11009
GI	1717826	Score	1303
Exons	9444..11009		
GI Descrip.	TYROSINE/DOPA DECARBOXYLASE 2 [INCLUDES: DOPA DECARBOXYLASE (DDC); TYROSINE DECARBOXYLASE ] gi 1076245 pir  B55066 tyrosine decarboxylase (EC 4.1.1.25) 2 - opium poppy gi 607747 (U08598) tyrosine/dopa decarboxylase [Papaver somniferum]		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	512	End	1669
GI	none	Score	130
Exons	512..676, 542..664, 898..1056, 920..1057, 1157..1519, 1165..1527, 1568..1669		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o3.tc	Method	TBLASTX:Cress
Start	512	End	826
GI	none	Score	212
Exons	512..676, 562..675, 778..816, 779..826		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o2.ts	Method	TBLASTX:Soybean
Start	563	End	1068
GI	none	Score	158
Exons	563..676, 565..675, 778..816, 779..826, 898..1068, 920..1057		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o4.tc	Method	TBLASTX:Cress
Start	920	End	1663
GI	none	Score	120
Exons	920..1054, 1198..1347, 1199..1372, 1406..1513, 1598..1663		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	1166	End	1663
GI	none	Score	97
Exons	1166..1453, 1168..1332, 1168..1527, 1169..1516, 1568..1663, 1571..1663		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o3.ts	Method	TBLASTX:Soybean
Start	9519	End	9776
GI	none	Score	124
Exons	9519..9659, 9545..9613, 9660..9776, 9710..9775		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o2.tc	Method	TBLASTX:Cress
Start	10029	End	10424
GI	none	Score	195
Exons	10029..10292, 10031..10093, 10202..10291, 10244..10369, 10281..10370, 10392..10424		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o2.tm	Method	TBLASTX:Maize
Start	10038	End	10292
GI	none	Score	177
Exons	10038..10172, 10040..10153, 10173..10292, 10173..10277, 10202..10291		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	10533	End	10982
GI	none	Score	213
Exons	10533..10742, 10565..10741, 10854..10982		

Seq. No.	30038	Seq. ID	OJ990409_02.9819.C15
Gene No.	61918	Strand	-
Start	13628	End	14745
Name	OJ990409_02.9819.C15.o3.gs	Method	GENSCAN
Start	13628	End	14745
GI	none	Score	.86
Exons	13628..13815, 14385..14745		

Seq. No.	30039	Seq. ID	OJ990409_02.9819.C16
Gene No.	61919	Strand	+
Start	2906	End	4211
Name	OJ990409_02.9819.C16.o2.np	Method	AAT/NAP
Start	2906	End	4211
GI	6815099	Score	86
Exons	2906..2935, 4080..4211		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	30039	Seq. ID	OJ990409_02.9819.C16
Gene No.	61920	Strand	-
Start	2107	End	2191
Name	OJ990409_02.9819.C16.o1.np	Method	AAT/NAP
Start	2107	End	2191
GI	6721547	Score	94
Exons	2107..2191		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	30039	Seq. ID	OJ990409_02.9819.C16
Gene No.	61921	Strand	-
Start	4262	End	4314
Name	OJ990409_02.9819.C16.o2.gs	Method	GENSCAN

Start 4262  
GI none  
Exons 4262..4314

End 4314  
Score .53

Seq. No. 30040  
Gene No. 61922  
Start 175  
Name OJ990409\_02.9819.C19.o1.gs.  
Start 175  
GI none  
Exons 175..347

Seq. ID OJ990409\_02.9819.C19  
Strand +  
End 347  
Method GENSCAN  
End 347  
Score .48

Seq. No. 30041  
Gene No. 61923  
Start 366  
Name OJ990619\_55.9922.C1.o1.np  
Start 366  
GI 121343  
Exons 366..537, 618..711

Seq. ID OJ990619\_55.9922.C1  
Strand +  
End 711  
Method AAT/NAP  
End 711  
Score 326

GI Descrip. GLUTAMINE SYNTHETASE SHOOT ISOZYME, CHLOROPLAST PRECURSOR  
(GLUTAMATE--AMMONIA LIGASE) (CLONE LAMBDA-GS31)  
gi|68598|pir||AJRZQD glutamate--ammonia ligase (EC 6.3.1.2)  
delta precursor, chloroplast - rice gi|20370|emb|CAA32462|  
(X14246) precursor chloroplastic glutamine synthetase (AA -46 to  
382) [Oryza sativa]

Seq. No. 30041  
Gene No. 61923  
Start 366  
Name OJ990619\_55.9922.C1.o1.tc  
Start 375  
GI none  
Exons 375..536, 376..537, 379..537,  
617..679, 618..701, 621..680

Seq. ID OJ990619\_55.9922.C1  
Strand +  
End 711  
Method TBLASTX:Cress  
End 701  
Score 250

Seq. No. 30041  
Gene No. 61923  
Start 366  
Name OJ990619\_55.9922.C1.o1.tm  
Start 375  
GI none  
Exons 375..536, 376..537, 377..538,  
618..701

Seq. ID OJ990619\_55.9922.C1  
Strand +  
End 711  
Method TBLASTX:Maize  
End 701  
Score 249

Seq. No. 30041  
Gene No. 61923  
Start 366  
Name OJ990619\_55.9922.C1.o1.gp  
Start 378  
GI 325\_1.R1084  
Exons 378..537, 618..711

Seq. ID OJ990619\_55.9922.C1  
Strand +  
End 711  
Method AAT/GAP  
End 711  
Score 388

GI Descrip. '121343/sp|P14655|GLN2\_ORYSA 0.0e+00 GLUTAMINE SYNTHETASE' SHOOT  
ISOZYME, CHLOROPLAST PRECURSOR (GLUTAMATE--AMMONIA LIGASE)  
(CLONE LAMBDA-GS31) >gi\_68598\_pir\_AJRZQD glutamate--ammonia  
ligase (EC 6.3.1.2) delta precursor, chloroplast - rice  
>gi\_20370\_emb\_CAA32462\_ (X14246) precursor chloroplastic  
glutamine synthetase (AA -46 to 382) [Oryza sativa]'

Seq. No.	30041	Seq. ID	OJ990619_55.9922.C1
Gene No.	61923	Strand	+
Start	366	End	711
Name	OJ990619_55.9922.C1.ol.ts	Method	TBLASTX:Soybean
Start	394	End	703
GI	none	Score	220
Exons	394..537, 396..533, 617..703, 618..701		

Seq. No.	30042	Seq. ID	OJ990619_55.9922.C3
Gene No.	61924	Strand	-
Start	1	End	481
Name	OJ990619_55.9922.C3.ol.np	Method	AAT/NAP
Start	1	End	481
GI	4680183	Score	833
Exons	1..481		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	30042	Seq. ID	OJ990619_55.9922.C3
Gene No.	61924	Strand	-
Start	1	End	481
Name	OJ990619_55.9922.C3.ol.gs	Method	GENSCAN
Start	17	End	416
GI	none	Score	.85
Exons	17..416		

Seq. No.	30042	Seq. ID	OJ990619_55.9922.C3
Gene No.	61924	Strand	-
Start	1	End	481
Name	OJ990619_55.9922.C3.ol.tw	Method	TBLASTX:Wheat
Start	129	End	479
GI	none	Score	226
Exons	129..479		

Seq. No.	30043	Seq. ID	OJ990619_55.9922.C4
Gene No.	61925	Strand	-
Start	214	End	524
Name	OJ990619_55.9922.C4.ol.tw	Method	TBLASTX:Wheat
Start	1	End	237
GI	none	Score	161
Exons	1..237, 5..223, 16..231		

Seq. No.	30043	Seq. ID	OJ990619_55.9922.C4
Gene No.	61925	Strand	-
Start	214	End	524
Name	OJ990619_55.9922.C4.ol.np	Method	AAT/NAP
Start	214	End	524
GI	5902444	Score	474
Exons	214..524		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61926	Strand	+
Start	1	End	2267
Name	OJ990619_55.9922.C5.ol.np	Method	AAT/NAP
Start	1	End	2264
GI	5922620	Score	576

Exons 1..236, 426..602, 639..722, 2134..2264  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61926	Strand	+
Start	1	End	2267
Name	OJ990619_55.9922.C5.o1.gs	Method	GENSCAN
Start	568	End	1086
GI	none	Score	.66
Exons	568..1086		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61926	Strand	+
Start	1	End	2267
Name	OJ990619_55.9922.C5.o2.gs	Method	GENSCAN
Start	1971	End	2267
GI	none	Score	1
Exons	1971..2267		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61927	Strand	+
Start	11797	End	12540
Name	OJ990619_55.9922.C5.o3.np	Method	AAT/NAP
Start	11797	End	12540
GI	6630686	Score	68
Exons	11797..11903, 12454..12540		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61928	Strand	+
Start	18173	End	19673
Name	OJ990619_55.9922.C5.o5.gs	Method	GENSCAN
Start	18173	End	19667
GI	none	Score	.95
Exons	18173..18276, 18714..18995, 19061..19667		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61928	Strand	+
Start	18173	End	19673
Name	OJ990619_55.9922.C5.o6.np	Method	AAT/NAP
Start	18718	End	19673
GI	4680183	Score	1475
Exons	18718..19673		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61929	Strand	-
Start	2844	End	13440
Name	OJ990619_55.9922.C5.o3.gs	Method	GENSCAN
Start	2844	End	13367
GI	none	Score	.63
Exons	2844..3062, 3324..3442, 4146..4362, 5876..6148, 6291..8948, 9067..9243, 10109..10321, 10420..10533, 12270..12986,		

13167..13367

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61929	Strand	-
Start	2844	End	13440
Name	OJ990619_55.9922.C5.o2.np	Method	AAT/NAP
Start	5779	End	10794
GI	5231113	Score	1652
Exons	5779..6148, 6291..8948, 9067..9249, 10118..10321, 10420..10533, 10655..10794		
GI Descrip.	(AF141202) EIN2 [Arabidopsis thaliana] gi 5231115 gb AAD41077.1 AF141203_1 (AF141203) EIN2 [Arabidopsis thaliana]		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61929	Strand	-
Start	2844	End	13440
Name	OJ990619_55.9922.C5.o4.np	Method	AAT/NAP
Start	12240	End	13440
GI	4204759	Score	541
Exons	12240..12986, 13167..13440		
GI Descrip.	(U51191) peroxidase precursor [Glycine max]		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	2836	End	18238
GI	none	Score	123
Exons	2836..3030, 2856..3035, 12243..12371, 12588..12707, 12592..12687, 12751..12852, 12807..12923, 12817..12891, 12901..12987, 12924..12992, 13170..13310, 15651..15839, 15671..15895, 15902..15997, 15909..15998, 16001..16204, 16002..16178, 16184..16498, 16230..16481, 18167..18238		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	5840	End	6013
GI	none	Score	177
Exons	5840..6013, 5841..6011		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	5840	End	7352
GI	none	Score	200
Exons	5840..6013, 5841..6014, 5862..6023, 6083..6160, 6089..6160, 6291..6392, 6291..6440, 6313..6438, 6522..6662, 6546..6599, 6577..6663, 6748..6795, 6762..6953, 6763..6849, 6826..6954, 6989..7105, 7023..7142, 7284..7352		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373

Name	OJ990619_55.9922.C5.o5.tm	Method	TBLASTX:Maize
Start	5999	End	6465
GI	none	Score	83
Exons	5999..6160, 6050..6151, 6283..6387, 6287..6379, 6291..6458, 6291..6464, 6313..6465, 6448..6465		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o8.tm	Method	TBLASTX:Maize
Start	6594	End	6761
GI	none	Score	193
Exons	6594..6761, 6595..6759		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	6762	End	7281
GI	none	Score	151
Exons	6762..6965, 6762..6965, 6763..7011, 6966..7280, 6967..7281, 6967..7281		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o7.tm	Method	TBLASTX:Maize
Start	7405	End	7662
GI	none	Score	157
Exons	7405..7650, 7407..7661, 7414..7662, 7461..7661		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	7662	End	8115
GI	none	Score	83
Exons	7662..7748, 7670..7750, 7677..7751, 7737..7889, 7737..7889, 7738..7896, 7741..7992, 7907..8086, 7907..8113, 7923..8111, 7926..8114, 8068..8115		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o6.tm	Method	TBLASTX:Maize
Start	8319	End	8595
GI	none	Score	61
Exons	8319..8381, 8323..8376, 8386..8541, 8386..8535, 8388..8591, 8508..8594, 8541..8594, 8542..8595, 8542..8595		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o3.tm	Method	TBLASTX:Maize
Start	8812	End	9240
GI	none	Score	219
Exons	8812..8949, 8814..8951, 9064..9240, 9067..9231, 9071..9238		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	12225	End	16498
GI	none	Score	81
Exons	12225..12530, 12238..12423, 12585..12683, 12592..12912, 12759..12923, 12954..12992, 13168..13275, 13170..13334, 16067..16294, 16230..16283, 16296..16430, 16301..16429, 16448..16498		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	12237	End	16430
GI	none	Score	71
Exons	12237..12500, 12238..12330, 12585..12923, 12592..12684, 12715..12918, 13170..13361, 16067..16318, 16298..16429, 16299..16430		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	12585	End	16498
GI	none	Score	39
Exons	12585..12935, 12600..12698, 12715..12936, 12945..12992, 13170..13319, 16043..16294, 16289..16411, 16296..16403, 16436..16498		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o4.gs	Method	GENSCAN
Start	15659	End	16630
GI	none	Score	.96
Exons	15659..16480, 16622..16630		

Seq. No.	30044	Seq. ID	OJ990619_55.9922.C5
Gene No.	61930	Strand	-
Start	15659	End	19373
Name	OJ990619_55.9922.C5.o5.np	Method	AAT/NAP
Start	15674	End	19373
GI	5381253	Score	365
Exons	15674..15892, 15935..16480, 18158..18227, 19228..19373		
GI Descrip.	(AB027752) peroxidase [Nicotiana tabacum]		

Seq. No.	30045	Seq. ID	OJ990619_55.9922.C6
Gene No.	61931	Strand	-
Start	66	End	205
Name	OJ990619_55.9922.C6.o1.gs	Method	GENSCAN
Start	66	End	205
GI	none	Score	.8
Exons	66..205		



Seq. No.	30046	Seq. ID	OJ990619_55.9922.C7
Gene No.	61932	Strand	+
Start	157	End	455
Name	OJ990619_55.9922.C7.o1.np	Method	AAT/NAP
Start	157	End	455
GI	2498930	Score	109
Exons	157..233, 401..455		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	30046	Seq. ID	OJ990619_55.9922.C7
Gene No.	61932	Strand	+
Start	157	End	455
Name	OJ990619_55.9922.C7.o1.gs	Method	GENSCAN
Start	174	End	445
GI	none	Score	.8
Exons	174..233, 401..445		

Seq. No.	30047	Seq. ID	OJ990619_55.9922.C8
Gene No.	61933	Strand	+
Start	207	End	314
Name	OJ990619_55.9922.C8.o1.np	Method	AAT/NAP
Start	207	End	314
GI	5852180	Score	100
Exons	207..314		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	30047	Seq. ID	OJ990619_55.9922.C8
Gene No.	61934	Strand	-
Start	256	End	313
Name	OJ990619_55.9922.C8.o1.gs	Method	GENSCAN
Start	256	End	313
GI	none	Score	.92
Exons	256..313		

Seq. No.	30048	Seq. ID	OJ990619_55.9922.C10
Gene No.	61935	Strand	+
Start	3277	End	3886
Name	OJ990619_55.9922.C10.o1.np	Method	AAT/NAP
Start	3277	End	3886
GI	5231113	Score	174
Exons	3277..3547, 3865..3886		
GI Descrip.	(AF141202) EIN2 [Arabidopsis thaliana] gi 5231115 gb AAD41077.1 AF141203_1 (AF141203) EIN2 [Arabidopsis thaliana]		

Seq. No.	30049	Seq. ID	OJ990619_55.9922.C11
Gene No.	61936	Strand	-
Start	1	End	574
Name	OJ990619_55.9922.C11.o1.np	Method	AAT/NAP
Start	1	End	574
GI	2498930	Score	963
Exons	1..574		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	30049	Seq. ID	OJ990619_55.9922.C11
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Gene No.	61936	Strand	-
Start	1	End	574
Name	OJ990619_55.9922.C11.o1.gs	Method	GENSCAN
Start	10	End	523
GI	none	Score	.99
Exons	10..523		
Seq. No.	30050	Seq. ID	OJ990619_55.9922.C12
Gene No.	61937	Strand	+
Start	1	End	2316
Name	OJ990619_55.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	2316
GI	4680186	Score	377
Exons	1..67, 1155..1276, 2116..2316		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	30050	Seq. ID	OJ990619_55.9922.C12
Gene No.	61938	Strand	-
Start	300	End	998
Name	OJ990619_55.9922.C12.o1.gs	Method	GENSCAN
Start	300	End	998
GI	none	Score	.66
Exons	300..559, 617..851, 948..998		
Seq. No.	30050	Seq. ID	OJ990619_55.9922.C12
Gene No.	61939	Strand	-
Start	1868	End	2249
Name	OJ990619_55.9922.C12.o1.gp	Method	AAT/GAP
Start	1868	End	2249
GI	uC-osflcyp033a04b1	Score	667
Exons	1868..2249		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	30051	Seq. ID	OJ990619_55.9922.C13
Gene No.	61940	Strand	-
Start	728	End	2339
Name	OJ990619_55.9922.C13.o1.gs	Method	GENSCAN
Start	728	End	2339
GI	none	Score	.75
Exons	728..940, 1168..1258, 2284..2339		
Seq. No.	30052	Seq. ID	OJ990619_55.9922.C14
Gene No.	61941	Strand	-
Start	1	End	117
Name	OJ990619_55.9922.C14.o1.np	Method	AAT/NAP
Start	1	End	117
GI	5902447	Score	187
Exons	1..117		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		
Seq. No.	30052	Seq. ID	OJ990619_55.9922.C14
Gene No.	61942	Strand	-
Start	207	End	1100
Name	OJ990619_55.9922.C14.o2.np	Method	AAT/NAP
Start	207	End	1100
GI	5902448	Score	1560

Exons 207..1100  
GI Descrip. (AB030283) orf3 [Oryza sativa]

Seq. No.	30052	Seq. ID	OJ990619_55.9922.C14
Gene No.	61942	Strand	-
Start	207	End	1100
Name	OJ990619_55.9922.C14.o1.gs	Method	GENSCAN
Start	216	End	1100
GI	none	Score	.9
Exons	216..1100		

Seq. No.	30052	Seq. ID	OJ990619_55.9922.C14
Gene No.	61942	Strand	-
Start	207	End	1100
Name	OJ990619_55.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	690	End	980
GI	none	Score	216
Exons	690..980		

Seq. No.	30053	Seq. ID	OJ990619_55.9922.C15
Gene No.	61943	Strand	+
Start	852	End	9114
Name	OJ990619_55.9922.C15.o1.gs	Method	GENSCAN
Start	852	End	9114
GI	none	Score	.43
Exons	852..884, 2609..2645, 3099..3190, 3864..3988, 4331..4416, 4727..4862, 6336..6472, 6515..6677, 9000..9114		

Seq. No.	30053	Seq. ID	OJ990619_55.9922.C15
Gene No.	61943	Strand	+
Start	852	End	9114
Name	OJ990619_55.9922.C15.o2.np	Method	AAT/NAP
Start	5444	End	5869
GI	6069646	Score	334
Exons	5444..5869		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	30053	Seq. ID	OJ990619_55.9922.C15
Gene No.	61943	Strand	+
Start	852	End	9114
Name	OJ990619_55.9922.C15.o3.np	Method	AAT/NAP
Start	8978	End	9111
GI	5922620	Score	171
Exons	8978..9111		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	30053	Seq. ID	OJ990619_55.9922.C15
Gene No.	61944	Strand	+
Start	9451	End	10718

Name OJ990619\_55.9922.C15.o5.np Method AAT/NAP  
 Start 9388 End 10718  
 GI 5922620 Score 447  
 Exons 9388..9426, 9466..9579, 9625..9649, 10287..10320, 10561..10718  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the  
 predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
 corresponds to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 30053 Seq. ID OJ990619\_55.9922.C15  
 Gene No. 61944 Strand +  
 Start 9451 End 10718  
 Name OJ990619\_55.9922.C15.o2.gs Method GENSCAN  
 Start 9451 End 10120  
 GI none Score .97  
 Exons 9451..9579, 9625..9649, 9963..10120

Seq. No. 30053 Seq. ID OJ990619\_55.9922.C15  
 Gene No. 61945 Strand -  
 Start 4572 End 4688  
 Name OJ990619\_55.9922.C15.o1.np Method AAT/NAP  
 Start 4572 End 4688  
 GI 5777617 Score 73  
 Exons 4572..4688  
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 30053 Seq. ID OJ990619\_55.9922.C15  
 Gene No. 61946 Strand -  
 Start 9250 End 9327  
 Name OJ990619\_55.9922.C15.o4.np Method AAT/NAP  
 Start 9250 End 9327  
 GI 6630699 Score 80  
 Exons 9250..9327  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
 [Oryza sativa]

Seq. No. 30054 Seq. ID OJ990619\_54.9922.C1  
 Gene No. 61947 Strand -  
 Start 1 End 310  
 Name OJ990619\_54.9922.C1.o1.np Method AAT/NAP  
 Start 1 End 301  
 GI 6850339 Score 93  
 Exons 1..301  
 GI Descrip. (AC022354) hypothetical protein [Arabidopsis thaliana]

Seq. No. 30054 Seq. ID OJ990619\_54.9922.C1  
 Gene No. 61947 Strand -  
 Start 1 End 310  
 Name OJ990619\_54.9922.C1.o1.tm Method TBLASTX:Maize  
 Start 1 End 289  
 GI none Score 72  
 Exons 1..72, 2..73, 131..289, 152..286

Seq. No. 30054 Seq. ID OJ990619\_54.9922.C1  
 Gene No. 61947 Strand -

Start	1	End	310
Name	OJ990619_54.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	179	End	310
GI	none	Score	72
Exons	179..304, 180..302, 181..303, 182..310		

Seq. No.	30055	Seq. ID	OJ990619_54.9922.C2
Gene No.	61948	Strand	+
Start	1	End	530
Name	OJ990619_54.9922.C2.o1.np	Method	AAT/NAP
Start	1	End	530
GI	6850339	Score	156
Exons	1..24, 414..530		
GI Descrip.	(AC022354) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61949	Strand	+
Start	5708	End	5762
Name	OJ990619_54.9922.C3.o3.gp	Method	AAT/GAP
Start	5708	End	5762
GI	77434_1.R1084	Score	83
Exons	5708..5762		
GI Descrip.	'2827528/emb CAA16536.1  2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61950	Strand	-
Start	359	End	3219
Name	OJ990619_54.9922.C3.o1.gs	Method	GENSCAN
Start	359	End	3219
GI	none	Score	.93
Exons	359..405, 500..561, 682..805, 1632..1864, 2638..3043, 3165..3219		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61950	Strand	-
Start	359	End	3219
Name	OJ990619_54.9922.C3.o1.np	Method	AAT/NAP
Start	468	End	3005
GI	4093157	Score	378
Exons	468..561, 682..818, 1627..1883, 2597..3005		
GI Descrip.	(AF087936) phytochrome-associated protein 2 [Arabidopsis thaliana] gi 4972054 emb CAB43922.1  (AL078470) phytochrome-associated protein PAP2 [Arabidopsis thaliana]		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61950	Strand	-
Start	359	End	3219
Name	OJ990619_54.9922.C3.o1.gp	Method	AAT/GAP
Start	500	End	734
GI	33188_1.R1084	Score	157
Exons	500..561, 682..734		
GI Descrip.	'4887020/gb AAD32146.1 AF123508_1 6.0e-11 (AF123508) Nt-iaa28 deduced protein [Nicotiana tabacum]'		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61950	Strand	-
Start	359	End	3219

Name	OJ990619_54.9922.C3.o2.gp	Method	AAT/GAP
Start	2663	End	3118
GI	none	Score	887
Exons	2663..3118		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	498	End	3057
GI	none	Score	87
Exons	498..560, 501..560, 502..561, 680..766, 681..767, 1613..1864, 1626..1862, 1627..1872, 2739..2804, 2741..2779, 2844..2903, 2857..2907, 2964..3023, 2964..3029, 3016..3057		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	501	End	1867
GI	none	Score	89
Exons	501..560, 681..746, 1630..1749, 1631..1747, 1648..1749, 1810..1866, 1814..1867		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o2.ts	Method	TBLASTX:Soybean
Start	501	End	746
GI	none	Score	90
Exons	501..560, 502..561, 681..746, 681..746		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	680	End	1867
GI	none	Score	105
Exons	680..757, 681..770, 1620..1751, 1627..1809, 1631..1825, 1732..1866, 1806..1865, 1808..1867		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	1612	End	2915
GI	none	Score	146
Exons	1612..1806, 1631..1789, 1778..1885, 1783..1866, 1786..1911, 1793..1885, 2844..2915		
Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o2.gs	Method	GENSCAN
Start	5587	End	7623
GI	none	Score	.65
Exons	5587..5691, 6261..6352, 6767..6825, 6890..7623		

Seq. No.	30056	Seq. ID	OJ990619_54.9922.C3
Gene No.	61951	Strand	-
Start	5587	End	7623
Name	OJ990619_54.9922.C3.o4.gp	Method	AAT/GAP
Start	7204	End	7521
GI	none	Score	589
Exons	7204..7521		
Seq. No.	30057	Seq. ID	OJ990619_54.9922.C5
Gene No.	61952	Strand	+
Start	4900	End	5364
Name	OJ990619_54.9922.C5.o2.gp	Method	AAT/GAP
Start	4900	End	5364
GI	none	Score	926
Exons	4900..5364		
Seq. No.	30057	Seq. ID	OJ990619_54.9922.C5
Gene No.	61953	Strand	-
Start	187	End	3950
Name	OJ990619_54.9922.C5.o1.gs	Method	GENSCAN
Start	187	End	3950
GI	none	Score	.92
Exons	187..660, 932..999, 1095..1329, 1447..1703, 1870..2011, 2620..2677, 2839..2964, 3811..3883, 3929..3950		
Seq. No.	30057	Seq. ID	OJ990619_54.9922.C5
Gene No.	61953	Strand	-
Start	187	End	3950
Name	OJ990619_54.9922.C5.o1.gp	Method	AAT/GAP
Start	932	End	2012
GI	none	Score	945
Exons	932..999, 1095..1174, 1292..1329, 1447..1658, 1870..2012		
Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61954	Strand	-
Start	1	End	1964
Name	OJ990619_54.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	1771
GI	4455260	Score	485
Exons	1..125, 620..768, 860..975, 1694..1771		
GI Descrip.	(AL035353) protein kinase-like protein [Arabidopsis thaliana]		
Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61954	Strand	-
Start	1	End	1964
Name	OJ990619_54.9922.C7.o1.gs	Method	GENSCAN
Start	849	End	1964
GI	none	Score	.91
Exons	849..929, 1524..1564, 1696..1838, 1909..1964		
Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61955	Strand	-
Start	1939	End	3909
Name	OJ990619_54.9922.C7.o2.np	Method	AAT/NAP
Start	1939	End	3909
GI	2943792	Score	57

Exons 1939..1962, 3649..3733, 3828..3909  
 GI Descrip. (AB006809) PV72 [Cucurbita sp.]

Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61956	Strand	-
Start	4579	End	4676
Name	OJ990619_54.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	16	End	912
GI	none	Score	161
Exons	16..135, 27..125, 608..766, 609..767, 620..769, 621..770, 622..771, 851..910, 858..911, 859..912		

Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61956	Strand	-
Start	4579	End	4676
Name	OJ990619_54.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	39	End	1772
GI	none	Score	106
Exons	39..125, 40..126, 608..766, 609..767, 614..769, 633..770, 634..771, 858..911, 858..929, 859..930, 1697..1771, 1698..1772		

Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61956	Strand	-
Start	4579	End	4676
Name	OJ990619_54.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	609	End	1784
GI	none	Score	179
Exons	609..767, 614..766, 858..929, 859..930, 1697..1780, 1698..1784		

Seq. No.	30058	Seq. ID	OJ990619_54.9922.C7
Gene No.	61956	Strand	-
Start	4579	End	4676
Name	OJ990619_54.9922.C7.o3.np	Method	AAT/NAP
Start	4579	End	4676
GI	5777617	Score	79
Exons	4579..4676		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	30059	Seq. ID	OJ990619_54.9922.C8
Gene No.	61957	Strand	+
Start	1368	End	1641
Name	OJ990619_54.9922.C8.o2.gs	Method	GENSCAN
Start	1368	End	1641
GI	none	Score	.59
Exons	1368..1376, 1579..1641		

Seq. No.	30059	Seq. ID	OJ990619_54.9922.C8
Gene No.	61958	Strand	-
Start	7	End	588
Name	OJ990619_54.9922.C8.o1.gs	Method	GENSCAN
Start	7	End	588
GI	none	Score	.5
Exons	7..588		

Seq. No.	30060	Seq. ID	OJ990619_54.9922.C9
Gene No.	61959	Strand	+
Start	1475	End	1885



Name OJ990619\_54.9922.C9.o1.gs  
 Start 1475  
 GI none  
 Exons 1475..1484, 1688..1885

Method GENSCAN  
 End 1885  
 Score .48

Seq. No. 30061  
 Gene No. 61960  
 Start 224  
 Name OJ990619\_54.9922.C12.o1.gp  
 Start 224  
 GI uC-osflm202100g12b1  
 Exons 224..387, 540..751  
 GI Descrip. '3643602 1.0e-15 (AC005395) putative tonoplast intrinsic protein [Arabidopsis thaliana]'

Seq. ID OJ990619\_54.9922.C12  
 Strand +  
 End 1168  
 Method AAT/GAP  
 End 751  
 Score 716

Seq. No. 30061  
 Gene No. 61960  
 Start 224  
 Name OJ990619\_54.9922.C12.o1.gs  
 Start 261  
 GI none  
 Exons 261..387, 540..1168

Seq. ID OJ990619\_54.9922.C12  
 Strand +  
 End 1168  
 Method GENSCAN  
 End 1168  
 Score .91

Seq. No. 30061  
 Gene No. 61960  
 Start 224  
 Name OJ990619\_54.9922.C12.o1.np  
 Start 261  
 GI 3643602  
 Exons 261..407, 566..1168  
 GI Descrip. (AC005395) putative aquaporin (tonoplast intrinsic protein) [Arabidopsis thaliana]

Seq. ID OJ990619\_54.9922.C12  
 Strand +  
 End 1168  
 Method AAT/NAP  
 End 1168  
 Score 614

Seq. No. 30061  
 Gene No. 61961  
 Start 1  
 Name OJ990619\_54.9922.C12.o2.np  
 Start 1  
 GI 134045  
 Exons 1..22, 2222..2295  
 GI Descrip. MITOCHONDRIAL RIBOSOMAL PROTEIN S3 gi|70869|pir||R3ZMS3  
 ribosomal protein S3 - maize mitochondrion  
 gi|13921|emb|CAA40690| (X57445) mitochondrial S3-like ribosomal  
 protein [Zea mays]

Seq. ID OJ990619\_54.9922.C12  
 Strand -  
 End 4310  
 Method AAT/NAP  
 End 2295  
 Score 77

Seq. No. 30061  
 Gene No. 61961  
 Start 1  
 Name OJ990619\_54.9922.C12.o1.tc  
 Start 261  
 GI none  
 Exons 261..392, 635..1120, 640..702, 833..1120, 883..1131

Seq. ID OJ990619\_54.9922.C12  
 Strand -  
 End 4310  
 Method TBLASTX:Cress  
 End 1131  
 Score 65

Seq. No. 30061  
 Gene No. 61961  
 Start 1  
 Name OJ990619\_54.9922.C12.o1.ts  
 Method TBLASTX:Soybean

Seq. ID OJ990619\_54.9922.C12  
 Strand -  
 End 4310  
 Method TBLASTX:Soybean

Start	261	End	1123
GI	none	Score	104
Exons	261..392, 272..391, 634..720, 635..1123, 793..1122, 944..1123		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o1.tm	Method	TBLASTX:Maize
Start	635	End	1122
GI	none	Score	426
Exons	635..1120, 635..721, 640..735, 793..1122		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o1.tw	Method	TBLASTX:Wheat
Start	635	End	1150
GI	none	Score	122
Exons	635..787, 635..721, 640..735, 808..1128, 815..1120, 818..1150		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o2.gp	Method	AAT/GAP
Start	1071	End	1421
GI	none	Score	694
Exons	1071..1421		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o2.gs	Method	GENSCAN
Start	1795	End	4310
GI	none	Score	.42
Exons	1795..1875, 3575..3647, 3814..3948, 4141..4310		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o3.np	Method	AAT/NAP
Start	3582	End	4011
GI	6539570	Score	148
Exons	3582..3635, 3798..4011		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	30061	Seq. ID	OJ990619_54.9922.C12
Gene No.	61961	Strand	-
Start	1	End	4310
Name	OJ990619_54.9922.C12.o4.np	Method	AAT/NAP
Start	4140	End	4249
GI	6630699	Score	71
Exons	4140..4249		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	30062	Seq. ID	OJ990619_54.9922.C13
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Gene No.	61962	Strand	+
Start	3463	End	4021
Name	OJ990619_54.9922.C13.o2.gs	Method	GENSCAN
Start	3463	End	4021
GI	none	Score	.68
Exons	3463..3613, 3696..4021		
Seq. No.	30062	Seq. ID	OJ990619_54.9922.C13
Gene No.	61963	Strand	-
Start	1485	End	3062
Name	OJ990619_54.9922.C13.o1.gs	Method	GENSCAN
Start	1485	End	3062
GI	none	Score	.97
Exons	1485..3062		
Seq. No.	30062	Seq. ID	OJ990619_54.9922.C13
Gene No.	61963	Strand	-
Start	1485	End	3062
Name	OJ990619_54.9922.C13.o1.np	Method	AAT/NAP
Start	1737	End	2808
GI	5668798	Score	398
Exons	1737..2092, 2123..2808		
GI Descrip.	(AC007519) Contains 6 PF 00400 WD40 G-beta repeat domains. [Arabidopsis thaliana]		
Seq. No.	30063	Seq. ID	OJ990619_54.9922.C15
Gene No.	61964	Strand	+
Start	6822	End	9275
Name	OJ990619_54.9922.C15.o1.np	Method	AAT/NAP
Start	6822	End	9275
GI	6850339	Score	565
Exons	6822..6977, 7988..8077, 8354..8398, 8504..8558, 8661..8704, 8817..9275		
GI Descrip.	(AC022354) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	30063	Seq. ID	OJ990619_54.9922.C15
Gene No.	61964	Strand	+
Start	6822	End	9275
Name	OJ990619_54.9922.C15.o3.gs	Method	GENSCAN
Start	7937	End	9206
GI	none	Score	.48
Exons	7937..8077, 8354..8398, 8504..8558, 8661..8704, 8817..9206		
Seq. No.	30063	Seq. ID	OJ990619_54.9922.C15
Gene No.	61965	Strand	-
Start	4258	End	7233
Name	OJ990619_54.9922.C15.o2.gs	Method	GENSCAN
Start	4258	End	7233
GI	none	Score	.55
Exons	4258..4492, 5778..5879, 6455..6537, 6646..6800, 7203..7233		
Seq. No.	30063	Seq. ID	OJ990619_54.9922.C15
Gene No.	61966	Strand	-
Start	7981	End	8870
Name	OJ990619_54.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	7981	End	8870
GI	none	Score	157

Exons 7981..8076, 7982..8077, 8353..8397, 8360..8401, 8497..8568, 8498..8560, 8653..8709, 8660..8707, 8817..8870

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61967 Strand +  
Start 1170 End 4151  
Name OJ990619\_54.9922.C16.o1.gs Method GENSCAN  
Start 1170 End 4151  
GI none Score .9  
Exons 1170..1250, 2195..2542, 2601..3326, 3468..3525, 3952..4151

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61967 Strand +  
Start 1170 End 4151  
Name OJ990619\_54.9922.C16.o1.np Method AAT/NAP  
Start 2144 End 3164  
GI 3063692 Score 330  
Exons 2144..2389, 2637..2714, 2748..2913, 2968..3164  
GI Descrip. (AL022537) putative protein [Arabidopsis thaliana]

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61968 Strand -  
Start 5200 End 6355  
Name OJ990619\_54.9922.C16.o1.gp Method AAT/GAP  
Start 5001 End 6291  
GI 18570\_2.R1084 Score 952  
Exons 5001..5361, 6154..6291  
GI Descrip. '2431767 7.0e-13 (U62751) acidic ribosomal protein P3a [Zea mays]'

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61968 Strand -  
Start 5200 End 6355  
Name OJ990619\_54.9922.C16.o1.tw Method TBLASTX:Wheat  
Start 5188 End 6355  
GI none Score 90  
Exons 5188..5235, 6151..6351, 6152..6205, 6287..6352, 6320..6355

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61968 Strand -  
Start 5200 End 6355  
Name OJ990619\_54.9922.C16.o2.gs Method GENSCAN  
Start 5200 End 6351  
GI none Score .9  
Exons 5200..5361, 6154..6351

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16  
Gene No. 61968 Strand -  
Start 5200 End 6355  
Name OJ990619\_54.9922.C16.o2.np Method AAT/NAP  
Start 5203 End 6351  
GI 6226016 Score 432  
Exons 5203..5361, 6154..6351  
GI Descrip. 60S ACIDIC RIBOSOMAL PROTEIN P3 (P1/P2-LIKE) (P3A) gi|2431767 (U62751) acidic ribosomal protein P3a [Zea mays]

Seq. No. 30064 Seq. ID OJ990619\_54.9922.C16

Gene No.	61968	Strand	-
Start	5200	End	6355
Name	OJ990619_54.9922.C16.o1.tc	Method	TBLASTX:Cress
Start	6151	End	6352
GI	none	Score	64
Exons	6151..6351, 6152..6205, 6287..6352		

Seq. No.	30064	Seq. ID	OJ990619_54.9922.C16
Gene No.	61968	Strand	-
Start	5200	End	6355
Name	OJ990619_54.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	6151	End	6352
GI	none	Score	79
Exons	6151..6351, 6152..6205, 6287..6352		

Seq. No.	30064	Seq. ID	OJ990619_54.9922.C16
Gene No.	61968	Strand	-
Start	5200	End	6355
Name	OJ990619_54.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	6151	End	6355
GI	none	Score	83
Exons	6151..6351, 6152..6205, 6287..6355		

Seq. No.	30065	Seq. ID	OJ990619_54.9922.C17
Gene No.	61969	Strand	+
Start	320	End	478
Name	OJ990619_54.9922.C17.o2.gp	Method	AAT/GAP
Start	320	End	478
GI	21434_1.R1084	Score	220
Exons	320..478		
GI Descrip.	'4680675/gb AAD27727.1 AF132952_1 2.0e-13 (AF132952) CGI-18 protein [Homo sapiens]'		

Seq. No.	30065	Seq. ID	OJ990619_54.9922.C17
Gene No.	61969	Strand	+
Start	320	End	478
Name	OJ990619_54.9922.C17.o1.gs	Method	GENSCAN
Start	355	End	478
GI	none	Score	.86
Exons	355..478		

Seq. No.	30065	Seq. ID	OJ990619_54.9922.C17
Gene No.	61970	Strand	-
Start	1	End	69
Name	OJ990619_54.9922.C17.o1.gp	Method	AAT/GAP
Start	1	End	69
GI	LIB3431-039-P1-K2-F5	Score	89
Exons	1..69		
GI Descrip.	'6006395/emb CAB56768.1  1.0e-10 (AJ132096) squamosa promoter binding protein-like 12 [Arabidopsis thaliana] >gi_6006403_emb_CAB56769.1_ (AJ132097) squamosa promoter binding protein-like 12 [Arabidopsis thaliana]'		

Seq. No.	30066	Seq. ID	OJ990619_54.9922.C18
Gene No.	61971	Strand	+
Start	792	End	892
Name	OJ990619_54.9922.C18.o1.gs	Method	GENSCAN

Start 792  
GI none  
Exons 792..892

End 892  
Score .75

Seq. No. 30067 Seq. ID OJ990619\_54.9922.C19  
Gene No. 61972 Strand +  
Start 937 End 2941  
Name OJ990619\_54.9922.C19.o1.gs Method GENSCAN  
Start 937 End 2941  
GI none Score .78  
Exons 937..1094, 1122..1182, 2804..2941

Seq. No. 30067 Seq. ID OJ990619\_54.9922.C19  
Gene No. 61973 Strand -  
Start 3793 End 4071  
Name OJ990619\_54.9922.C19.o2.gs Method GENSCAN  
Start 3793 End 4071  
GI none Score .5  
Exons 3793..4071

Seq. No. 30068 Seq. ID OJ990619\_54.9922.C20  
Gene No. 61974 Strand +  
Start 1081 End 4269  
Name OJ990619\_54.9922.C20.o1.gs Method GENSCAN  
Start 1081 End 4269  
GI none Score .53  
Exons 1081..1188, 1296..1368, 2879..2936, 3553..3749, 4109..4269

Seq. No. 30068 Seq. ID OJ990619\_54.9922.C20  
Gene No. 61974 Strand +  
Start 1081 End 4269  
Name OJ990619\_54.9922.C20.o1.np Method AAT/NAP  
Start 2531 End 2664  
GI 133416 Score 54  
Exons 2531..2664  
GI Descrip. DNA-DIRECTED RNA POLYMERASE BETA CHAIN gi|66970|pir||RNRZB  
DNA-directed RNA polymerase (EC 2.7.7.6) beta chain - rice  
chloroplast gi|11971|emb|CAA33986| (X15901) RNA polymerase beta  
subunit [Oryza sativa]

Seq. No. 30068 Seq. ID OJ990619\_54.9922.C20  
Gene No. 61975 Strand -  
Start 4496 End 4594  
Name OJ990619\_54.9922.C20.o2.gs Method GENSCAN  
Start 4496 End 4594  
GI none Score .43  
Exons 4496..4594

Seq. No. 30069 Seq. ID OJ990619\_54.9922.C21  
Gene No. 61976 Strand +  
Start 463 End 850  
Name OJ990619\_54.9922.C21.o1.gs Method GENSCAN  
Start 463 End 850  
GI none Score .48  
Exons 463..544, 732..850

Seq. No. 30070 Seq. ID OJ990619\_54.9922.C23

Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.gp	Method	AAT/GAP
Start	1	End	1659
GI	14216_1.R1084	Score	650
Exons	1..56, 129..263, 986..1094, 1502..1554, 1638..1659		
GI Descrip.	'3241943 5.0e-93 (AC004625) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.np	Method	AAT/NAP
Start	1	End	3056
GI	6714356	Score	728
Exons	1..56, 129..263, 986..1094, 1502..1554, 1638..1787, 2631..2826, 2872..3056		
GI Descrip.	(AC012562) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	5	End	1097
GI	none	Score	57
Exons	5..55, 9..56, 114..263, 123..263, 124..264, 124..264, 128..271, 974..1093, 984..1097, 986..1096		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.ts	Method	TBLASTX:Soybean
Start	9	End	1071
GI	none	Score	137
Exons	9..59, 124..264, 135..263, 146..280, 974..1069, 975..1070, 985..1071, 986..1069		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.gs	Method	GENSCAN
Start	12	End	3047
GI	none	Score	.89
Exons	12..56, 129..263, 986..1094, 1502..1554, 1638..1787, 2631..3047		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o1.tc	Method	TBLASTX:Cress
Start	12	End	1777
GI	none	Score	47
Exons	12..59, 12..56, 114..263, 123..263, 124..264, 143..280, 245..295, 970..1089, 984..1097, 986..1096, 1510..1554, 1639..1770, 1641..1772, 1642..1773, 1676..1777		

Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-

Start	1	End	3056
Name	OJ990619_54.9922.C23.o2.tm	Method	TBLASTX:Maize
Start	1638	End	1796
GI	none	Score	171
Exons	1638..1796, 1641..1787, 1642..1794		
Seq. No.	30070	Seq. ID	OJ990619_54.9922.C23
Gene No.	61977	Strand	-
Start	1	End	3056
Name	OJ990619_54.9922.C23.o2.gp	Method	AAT/GAP
Start	1704	End	3044
GI	none	Score	944
Exons	1704..1787, 2631..3044		
Seq. No.	30071	Seq. ID	OJ990619_54.9922.C24
Gene No.	61978	Strand	-
Start	1	End	631
Name	OJ990619_54.9922.C24.o1.np	Method	AAT/NAP
Start	1	End	631
GI	2498930	Score	736
Exons	1..404, 572..631		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	30072	Seq. ID	OJ990619_54.9922.C25
Gene No.	61979	Strand	+
Start	163	End	476
Name	OJ990619_54.9922.C25.o1.gp	Method	AAT/GAP
Start	163	End	476
GI	none	Score	607
Exons	163..476		
Seq. No.	30073	Seq. ID	OJ990619_54.9922.C26
Gene No.	61980	Strand	+
Start	1	End	669
Name	OJ990619_54.9922.C26.o1.np	Method	AAT/NAP
Start	1	End	669
GI	2062175	Score	204
Exons	1..669		
GI Descrip.	(AC001645) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	30073	Seq. ID	OJ990619_54.9922.C26
Gene No.	61981	Strand	+
Start	2789	End	3099
Name	OJ990619_54.9922.C26.o2.gp	Method	AAT/GAP
Start	2789	End	3099
GI	none	Score	338
Exons	2789..2865, 2982..3099		
Seq. No.	30073	Seq. ID	OJ990619_54.9922.C26
Gene No.	61982	Strand	-
Start	747	End	1240
Name	OJ990619_54.9922.C26.o1.tm	Method	TBLASTX:Maize
Start	3	End	607
GI	none	Score	304
Exons	3..311, 4..312, 292..399, 293..553, 297..557, 303..578, 460..573, 517..597, 535..597, 539..607, 540..599		



Seq. No.	30073	Seq. ID	OJ990619_54.9922.C26
Gene No.	61982	Strand	-
Start	747	End	1240
Name	OJ990619_54.9922.C26.o1.gp	Method	AAT/GAP
Start	747	End	1240
GI	none	Score	789
Exons	747..1240		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61983	Strand	+
Start	163	End	4048
Name	OJ990619_54.9922.C27.o1.gs	Method	GENSCAN
Start	163	End	3882
GI	none	Score	.84
Exons	163..294, 975..1382, 1471..1534, 2780..2934, 3478..3882		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61983	Strand	+
Start	163	End	4048
Name	OJ990619_54.9922.C27.o2.gp	Method	AAT/GAP
Start	1482	End	4048
GI	4231 1.R1084	Score	2028
Exons	1482..1534, 2399..2538, 2623..2934, 3478..4048		
GI Descrip.	'3757521 1.0e-68 (AC005167) unknown protein [Arabidopsis thaliana]'		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61983	Strand	+
Start	163	End	4048
Name	OJ990619_54.9922.C27.o1.np	Method	AAT/NAP
Start	1506	End	2943
GI	1707021	Score	496
Exons	1506..1558, 2368..2538, 2623..2943		
GI Descrip.	(U78721) putative ubiquitin-conjugating enzyme E2 [Arabidopsis thaliana]		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61984	Strand	-
Start	973	End	1200
Name	OJ990619_54.9922.C27.o1.gp	Method	AAT/GAP
Start	973	End	1200
GI	none	Score	383
Exons	973..1200		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o2.tc	Method	TBLASTX:Cress
Start	894	End	1255
GI	none	Score	90
Exons	894..1043, 971..1027, 1066..1236, 1151..1255, 1158..1250		
Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o1.tm	Method	TBLASTX:Maize

Start	995	End	3816
GI	none	Score	48
Exons	995..1036, 995..1027, 996..1043, 1066..1236, 1151..1255, 1158..1250, 1263..1361, 1275..1373, 1473..1532, 1477..1545, 2397..2507, 2397..2567, 2398..2541, 2625..2933, 2626..2934, 2633..2971, 3462..3611, 3469..3600, 3676..3816, 3725..3772, 3756..3803		

Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o1.tc	Method	TBLASTX:Cress
Start	1278	End	2856
GI	none	Score	59
Exons	1278..1370, 1477..1545, 2401..2541, 2409..2504, 2626..2856, 2637..2819		

Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o1.ts	Method	TBLASTX:Soybean
Start	1477	End	3600
GI	none	Score	66
Exons	1477..1533, 2397..2537, 2404..2538, 2622..2906, 2623..2952, 3469..3600		

Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o1.tw	Method	TBLASTX:Wheat
Start	2421	End	2931
GI	none	Score	137
Exons	2421..2537, 2422..2538, 2622..2882, 2623..2931		

Seq. No.	30074	Seq. ID	OJ990619_54.9922.C27
Gene No.	61985	Strand	-
Start	4656	End	5639
Name	OJ990619_54.9922.C27.o2.gs	Method	GENSCAN
Start	4656	End	5639
GI	none	Score	.72
Exons	4656..4940, 5063..5639		

Seq. No.	30075	Seq. ID	OJ990619_54.9922.C28
Gene No.	61986	Strand	+
Start	1603	End	2102
Name	OJ990619_54.9922.C28.o1.gs	Method	GENSCAN
Start	1603	End	2005
GI	none	Score	.66
Exons	1603..1809, 1953..2005		

Seq. No.	30075	Seq. ID	OJ990619_54.9922.C28
Gene No.	61986	Strand	+
Start	1603	End	2102
Name	OJ990619_54.9922.C28.o1.np	Method	AAT/NAP
Start	1633	End	2102
GI	123178	Score	107
Exons	1633..1809, 1953..2102		

GI Descrip. HISTIDINOL DEHYDROGENASE, CHLOROPLAST PRECURSOR (HDH)  
gi|99844|pir||A39358 histidinol dehydrogenase (EC 1.1.1.23)  
precursor, chloroplast - cabbage gi|167142 (M60466) histidinol  
dehydrogenase [Brassica oleracea]

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61987	Strand	+
Start	1	End	2320
Name	OJ990619_54.9922.C29.o1.np	Method	AAT/NAP
Start	1	End	2320
GI	123178	Score	1269
Exons	1..67, 170..271, 361..432, 540..602, 683..724, 1093..1152, 1228..1338, 1517..1687, 1865..1955, 2044..2320		

GI Descrip. HISTIDINOL DEHYDROGENASE, CHLOROPLAST PRECURSOR (HDH)  
gi|99844|pir||A39358 histidinol dehydrogenase (EC 1.1.1.23)  
precursor, chloroplast - cabbage gi|167142 (M60466) histidinol  
dehydrogenase [Brassica oleracea]

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61987	Strand	+
Start	1	End	2320
Name	OJ990619_54.9922.C29.o1.gs	Method	GENSCAN
Start	361	End	2156
GI	none	Score	.74
Exons	361..432, 540..602, 1093..1152, 1228..1338, 1517..1687, 1865..1955, 2044..2156		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o2.tm	Method	TBLASTX:Maize
Start	1	End	1152
GI	none	Score	115
Exons	1..66, 2..67, 3..68, 152..271, 165..269, 166..270, 360..440, 360..437, 361..447, 361..447, 502..603, 525..638, 527..601, 528..602, 679..738, 680..739, 1089..1151, 1092..1151, 1096..1152		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o1.ts	Method	TBLASTX:Soybean
Start	2	End	2304
GI	none	Score	92
Exons	2..67, 152..271, 166..270, 360..434, 361..444, 361..456, 537..647, 551..601, 645..740, 680..739, 1092..1151, 1092..1145, 1093..1152, 1224..1334, 1225..1338, 1227..1355, 1494..1667, 1514..1687, 1516..1692, 1517..1702, 1865..1957, 1867..1956, 2043..2069, 2053..2304, 2054..2299, 2167..2301		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o2.tc	Method	TBLASTX:Cress
Start	152	End	1266
GI	none	Score	163
Exons	152..271, 166..267, 170..271, 360..434, 361..444, 361..453, 537..647, 542..598, 680..739, 682..738, 1089..1151, 1090..1152,		

1092..1151, 1093..1152, 1222..1266, 1230..1265

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o1.tw	Method	TBLASTX:Wheat
Start	679	End	1579
GI	none	Score	81
Exons	679..729, 683..739, 1089..1151, 1090..1152, 1092..1151, 1093..1152, 1225..1338, 1227..1337, 1497..1574, 1511..1579, 1515..1574		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o1.tm	Method	TBLASTX:Maize
Start	1225	End	2336
GI	none	Score	179
Exons	1225..1338, 1227..1334, 1497..1688, 1515..1688, 1516..1692, 1517..1702, 1863..1955, 1864..1956, 1865..1957, 2024..2068, 2040..2069, 2043..2069, 2050..2313, 2054..2317, 2061..2336		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o1.tc	Method	TBLASTX:Cress
Start	1542	End	2316
GI	none	Score	147
Exons	1542..1691, 1583..1702, 1600..1692, 1882..1956, 1892..1957, 2043..2069, 2054..2302, 2068..2316		

Seq. No.	30076	Seq. ID	OJ990619_54.9922.C29
Gene No.	61988	Strand	+
Start	2703	End	3113
Name	OJ990619_54.9922.C29.o1.gp	Method	AAT/GAP
Start	2703	End	3113
GI	none	Score	791
Exons	2703..3113		

Seq. No.	30077	Seq. ID	OJ990619_54.9922.C30
Gene No.	61989	Strand	+
Start	1206	End	1547
Name	OJ990619_54.9922.C30.o1.gp	Method	AAT/GAP
Start	1206	End	1547
GI	uC-osroM202008e03b1	Score	660
Exons	1206..1547		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	30077	Seq. ID	OJ990619_54.9922.C30
Gene No.	61990	Strand	+
Start	3003	End	5320
Name	OJ990619_54.9922.C30.o1.np	Method	AAT/NAP
Start	3003	End	5320
GI	4972056	Score	142
Exons	3003..3080, 3422..3487, 4211..4276, 5261..5320		
GI Descrip.	(AL078470) putative protein [Arabidopsis thaliana]		

Seq. No.	30078	Seq. ID	OJ990619_54.9922.C31
Gene No.	61991	Strand	+
Start	447	End	507
Name	OJ990619_54.9922.C31.o1.gp	Method	AAT/GAP
Start	447	End	507
GI	2312838	Score	81
Exons	447..507		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	30079	Seq. ID	OJ990619_54.9922.C32
Gene No.	61992	Strand	-
Start	252	End	500
Name	OJ990619_54.9922.C32.o1.gp	Method	AAT/GAP
Start	252	End	500
GI	LIB3477-003-P1-K1-E9	Score	84
Exons	252..288, 443..500		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	30079	Seq. ID	OJ990619_54.9922.C32
Gene No.	61993	Strand	-
Start	589	End	656
Name	OJ990619_54.9922.C32.o1.gs	Method	GENSCAN
Start	589	End	656
GI	none	Score	.46
Exons	589..656		

Seq. No.	30079	Seq. ID	OJ990619_54.9922.C32
Gene No.	61994	Strand	-
Start	589	End	657
Name	OJ990619_54.9922.C32.o2.gp	Method	AAT/GAP
Start	589	End	657
GI	21434_1.R1084	Score	93
Exons	589..657		
GI Descrip.	'4680675/gb AAD27727.1 AF132952_1 2.0e-13 (AF132952) CGI-18 protein [Homo sapiens]'		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.gp	Method	AAT/GAP
Start	3278	End	3851
GI	33797_1.R1084	Score	1122
Exons	3278..3851		
GI Descrip.	'3643602 3.0e-26 (AC005395) putative tonoplast intrinsic protein [Arabidopsis thaliana]'		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.np.	Method	AAT/NAP
Start	3408	End	4248
GI	3643602	Score	694
Exons	3408..4021, 4111..4248		

GI Descrip. (AC005395) putative aquaporin (tonoplast intrinsic protein)  
[Arabidopsis thaliana]

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.tm	Method	TBLASTX:Maize
Start	3410	End	3734
GI	none	Score	339
Exons	3410..3733, 3411..3734		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.tc	Method	TBLASTX:Cress
Start	3422	End	4249
GI	none	Score	68
Exons	3422..3619, 3434..3529, 3456..3650, 3668..3733, 3875..3949, 3879..3950, 4114..4248, 4127..4249		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.ts	Method	TBLASTX:Soybean
Start	3458	End	4252
GI	none	Score	212
Exons	3458..3619, 3459..3656, 3668..3730, 3869..3943, 3879..3938, 4114..4248, 4118..4252		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o2.tw	Method	TBLASTX:Wheat
Start	3458	End	3635
GI	none	Score	184
Exons	3458..3619, 3459..3635		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o2.tm	Method	TBLASTX:Maize
Start	3869	End	4252
GI	none	Score	118
Exons	3869..4030, 3879..3950, 4007..4030, 4114..4248, 4121..4252		

Seq. No.	30080	Seq. ID	OJ990619_54.9922.C33
Gene No.	61995	Strand	-
Start	3278	End	4252
Name	OJ990619_54.9922.C33.o1.tw	Method	TBLASTX:Wheat
Start	3875	End	4249
GI	none	Score	95
Exons	3875..4048, 3879..3950, 4120..4248, 4121..4249		

Seq. No.	30081	Seq. ID	OJ990619_51.9920.C1
Gene No.	61996	Strand	+
Start	97	End	397
Name	OJ990619_51.9920.C1.o1.gs	Method	GENSCAN

Start	97	End	397
GI	none	Score	.51
Exons	97..397		

Seq. No.	30082	Seq. ID	OJ990619_51.9920.C2
Gene No.	61997	Strand	+
Start	455	End	788
Name	OJ990619_51.9920.C2.o1.gs	Method	GENSCAN
Start	455	End	788
GI	none	Score	.56
Exons	455..598, 608..788		

Seq. No.	30082	Seq. ID	OJ990619_51.9920.C2
Gene No.	61998	Strand	-
Start	1	End	861
Name	OJ990619_51.9920.C2.o1.np	Method	AAT/NAP
Start	1	End	861
GI	6498441	Score	311
Exons	1..21, 498..861		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	30082	Seq. ID	OJ990619_51.9920.C2
Gene No.	61998	Strand	-
Start	1	End	861
Name	OJ990619_51.9920.C2.o1.tw	Method	TBLASTX:Wheat
Start	26	End	373
GI	none	Score	241
Exons	26..373, 40..279		

Seq. No.	30082	Seq. ID	OJ990619_51.9920.C2
Gene No.	61998	Strand	-
Start	1	End	861
Name	OJ990619_51.9920.C2.o1.tm	Method	TBLASTX:Maize
Start	85	End	415
GI	none	Score	161
Exons	85..180, 86..235, 92..241, 298..414, 299..415		

Seq. No.	30082	Seq. ID	OJ990619_51.9920.C2
Gene No.	61998	Strand	-
Start	1	End	861
Name	OJ990619_51.9920.C2.o2.tw	Method	TBLASTX:Wheat
Start	542	End	858
GI	none	Score	52
Exons	542..661, 579..650, 662..802, 676..858, 677..820		

Seq. No.	30083	Seq. ID	OJ990619_51.9920.C3
Gene No.	61999	Strand	-
Start	1919	End	3511
Name	OJ990619_51.9920.C3.o1.gs	Method	GENSCAN
Start	1919	End	3511
GI	none	Score	.65
Exons	1919..2081, 3399..3511		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62000	Strand	+

Start	1441	End	2639
Name	OJ990619_51.9920.C4.o1.gs	Method	GENSCAN
Start	1441	End	2639
GI	none	Score	.73
Exons	1441..1503, 2011..2247, 2634..2639		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62001	Strand	+
Start	2949	End	3369
Name	OJ990619_51.9920.C4.o1.gp	Method	AAT/GAP
Start	2949	End	3369
GI	none	Score	821
Exons	2949..3369		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o1.ts	Method	TBLASTX:Soybean
Start	3135	End	4301
GI	none	Score	103
Exons	3135..3224, 3403..3603, 3459..3602, 3693..3785, 3766..3888, 3771..3890, 3918..4022, 4092..4301, 4141..4281		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o2.gs	Method	GENSCAN
Start	3144	End	7943
GI	none	Score	.44
Exons	3144..4426, 5139..5410, 5540..5662, 7132..7349, 7905..7943		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o1.np	Method	AAT/NAP
Start	3147	End	4280
GI	6730740	Score	526
Exons	3147..4023, 4051..4280		
GI Descrip.	(AC018849) unknown protein [Arabidopsis thaliana]		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o2.tm	Method	TBLASTX:Maize
Start	3693	End	3888
GI	none	Score	173
Exons	3693..3887, 3721..3888		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o2.gp	Method	AAT/GAP
Start	3712	End	4035
GI	none	Score	615
Exons	3712..4035		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
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Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o1.tc	Method	TBLASTX:Cress
Start	3771	End	4281
GI	none	Score	80
Exons	3771..3803, 3795..3890, 3796..3885, 3918..4022, 4071..4277, 4168..4281		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o1.tm	Method	TBLASTX:Maize
Start	3936	End	4278
GI	none	Score	97
Exons	3936..4028, 3937..4026, 4092..4277, 4129..4278		

Seq. No.	30084	Seq. ID	OJ990619_51.9920.C4
Gene No.	62002	Strand	-
Start	3144	End	7943
Name	OJ990619_51.9920.C4.o3.gp	Method	AAT/GAP
Start	4036	End	4386
GI	73134_1.R1084	Score	674
Exons	4036..4386		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	30085	Seq. ID	OJ990619_51.9920.C6
Gene No.	62003	Strand	+
Start	1	End	525
Name	OJ990619_51.9920.C6.o1.np	Method	AAT/NAP
Start	1	End	525
GI	4234953	Score	171
Exons	1..525		
GI Descrip.	(AF098970) NBS-LRR-like protein cD7 [Phaseolus vulgaris]		

Seq. No.	30085	Seq. ID	OJ990619_51.9920.C6
Gene No.	62003	Strand	+
Start	1	End	525
Name	OJ990619_51.9920.C6.o1.gs	Method	GENSCAN
Start	5	End	77
GI	none	Score	.89
Exons	5..77		

Seq. No.	30086	Seq. ID	OJ990619_51.9920.C7
Gene No.	62004	Strand	+
Start	1	End	1009
Name	OJ990619_51.9920.C7.o1.np	Method	AAT/NAP
Start	1	End	1009
GI	2943742	Score	166
Exons	1..77, 300..508, 713..1009		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		

Seq. No.	30087	Seq. ID	OJ990619_51.9920.C8
Gene No.	62005	Strand	+
Start	973	End	1553
Name	OJ990619_51.9920.C8.o1.np	Method	AAT/NAP

Start	973	End	1553
GI	123239	Score	37
Exons	973..1296, 1429..1553		
GI Descrip.	HOMEBOX PROTEIN OM(1D) gi 103027 pir  S13367 Om(1D) protein - fruit fly (Drosophila ananassae) gi 7147 emb CAA40011  (X56682) Om(1D) [Drosophila ananassae]		

Seq. No.	30087	Seq. ID	OJ990619_51.9920.C8
Gene No.	62006	Strand	-
Start	1593	End	6051
Name	OJ990619_51.9920.C8.o1.gs	Method	GENSCAN
Start	1593	End	6051
GI	none	Score	.76
Exons	1593..1718, 2778..2924, 3210..3257, 4556..4660, 4742..4869, 5015..5193, 5592..5721, 6027..6051		

Seq. No.	30087	Seq. ID	OJ990619_51.9920.C8
Gene No.	62006	Strand	-
Start	1593	End	6051
Name	OJ990619_51.9920.C8.o1.gp	Method	AAT/GAP
Start	3018	End	5722
GI	34661_1.R1084	Score	1425
Exons	3018..3257, 4526..4627, 4742..4869, 5015..5193, 5592..5722		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	30087	Seq. ID	OJ990619_51.9920.C8
Gene No.	62006	Strand	-
Start	1593	End	6051
Name	OJ990619_51.9920.C8.o1.tm	Method	TBLASTX:Maize
Start	3156	End	5723
GI	none	Score	154
Exons	3156..3254, 3160..3288, 4525..4629, 4526..4648, 4527..4628, 4736..4873, 4739..4876, 4740..4874, 4747..4875, 5015..5188, 5016..5192, 5017..5193, 5080..5193, 5591..5722, 5592..5723, 5594..5707		

Seq. No.	30087	Seq. ID	OJ990619_51.9920.C8
Gene No.	62006	Strand	-
Start	1593	End	6051
Name	OJ990619_51.9920.C8.o2.np	Method	AAT/NAP
Start	3162	End	5723
GI	4584541	Score	512
Exons	3162..3257, 4526..4627, 4742..4869, 5015..5193, 5592..5723		
GI Descrip.	(AL049608) 3-hydroxyisobutyryl-coenzyme A hydrolase-like protein [Arabidopsis thaliana]		

Seq. No.	30088	Seq. ID	OJ990619_51.9920.C9
Gene No.	62007	Strand	-
Start	1	End	1595
Name	OJ990619_51.9920.C9.o1.np	Method	AAT/NAP
Start	1	End	1595
GI	4584541	Score	66
Exons	1..26, 1404..1595		
GI Descrip.	(AL049608) 3-hydroxyisobutyryl-coenzyme A hydrolase-like protein [Arabidopsis thaliana]		

Seq. No. 30088  
 Gene No. 62007  
 Start 1  
 Name OJ990619\_51.9920.C9.o1.gs  
 Start 1336  
 GI none  
 Exons 1336..1387, 1451..1530

Seq. ID OJ990619\_51.9920.C9  
 Strand -  
 End 1595  
 Method GENSCAN  
 End 1530  
 Score .56

Seq. No. 30088  
 Gene No. 62007  
 Start 1  
 Name OJ990619\_51.9920.C9.o1.gp  
 Start 1481  
 GI 26677\_1.R1084  
 Exons 1481..1536

Seq. ID OJ990619\_51.9920.C9  
 Strand -  
 End 1595  
 Method AAT/GAP  
 End 1536  
 Score 86

GI Descrip. '1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon  
 4-coumarate-CoA ligase gene, intron 1, partial sequence'

Seq. No. 30089  
 Gene No. 62008  
 Start 5520  
 Name OJ990619\_51.9920.C10.o2.gs  
 Start 5520  
 GI none  
 Exons 5520..5533, 6464..6731

Seq. ID OJ990619\_51.9920.C10  
 Strand +  
 End 6731  
 Method GENSCAN  
 End 6731  
 Score .89

Seq. No. 30089  
 Gene No. 62009  
 Start 1  
 Name OJ990619\_51.9920.C10.o1.np  
 Start 1  
 GI 4584541  
 Exons 1..42, 534..639

Seq. ID OJ990619\_51.9920.C10  
 Strand -  
 End 845  
 Method AAT/NAP  
 End 639  
 Score 96

GI Descrip. (AL049608) 3-hydroxyisobutyryl-coenzyme A hydrolase-like protein  
 [Arabidopsis thaliana]

Seq. No. 30089  
 Gene No. 62009  
 Start 1  
 Name OJ990619\_51.9920.C10.o1.gp  
 Start 534  
 GI 26677\_1.R1084  
 Exons 534..845

Seq. ID OJ990619\_51.9920.C10  
 Strand -  
 End 845  
 Method AAT/GAP  
 End 845  
 Score 501

GI Descrip. '1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon  
 4-coumarate-CoA ligase gene, intron 1, partial sequence'

Seq. No. 30090  
 Gene No. 62010  
 Start 1  
 Name OJ990619\_51.9920.C11.o1.np  
 Start 1  
 GI 6630685  
 Exons 1..187

Seq. ID OJ990619\_51.9920.C11  
 Strand -  
 End 187  
 Method AAT/NAP  
 End 187  
 Score 240

GI Descrip. (AP000969) Similar to copia-type pol polyprotein. (AF105716)  
 [Oryza sativa]

Seq. No. 30090

Seq. ID OJ990619\_51.9920.C11

Gene No.	62011	Strand	-
Start	98	End	201
Name	OJ990619_51.9920.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	201
GI	none	Score	110
Exons	1..129, 3..128, 126..188, 127..201		
Seq. No.	30090	Seq. ID	OJ990619_51.9920.C11
Gene No.	62011	Strand	-
Start	98	End	201
Name	OJ990619_51.9920.C11.o1.gs	Method	GENSCAN
Start	98	End	187
GI	none	Score	.67
Exons	98..187		
Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62012	Strand	+
Start	5110	End	7188
Name	OJ990619_51.9920.C12.o2.gs	Method	GENSCAN
Start	5110	End	6742
GI	none	Score	.63
Exons	5110..5476, 5500..5797, 5815..5951, 6060..6742		
Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62012	Strand	+
Start	5110	End	7188
Name	OJ990619_51.9920.C12.o2.np	Method	AAT/NAP
Start	5615	End	7188
GI	6498441	Score	1949
Exons	5615..6677, 7008..7188		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62012	Strand	+
Start	5110	End	7188
Name	OJ990619_51.9920.C12.o3.gs	Method	GENSCAN
Start	6815	End	7174
GI	none	Score	.79
Exons	6815..7174		
Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o1.tm	Method	TBLASTX:Maize
Start	1445	End	2152
GI	none	Score	208
Exons	1445..1804, 1448..2152, 1455..2144, 1699..2145		
Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o1.np	Method	AAT/NAP
Start	1478	End	5290
GI	6630685	Score	4211
Exons	1478..4037, 5265..5290		

GI Descrip. (AP000969) Similar to copia-type pol polyprotein. (AF105716)  
[Oryza sativa]

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o2.ts	Method	TBLASTX:Soybean
Start	1493	End	2134
GI	none	Score	103
Exons	1493..1726, 1745..2134, 1746..1910, 1751..1945		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o2.tc	Method	TBLASTX:Cress
Start	1496	End	1951
GI	none	Score	65
Exons	1496..1708, 1727..1861, 1865..1951		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o6.tw	Method	TBLASTX:Wheat
Start	1529	End	1996
GI	none	Score	123
Exons	1529..1717, 1736..1996		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o3.tm	Method	TBLASTX:Maize
Start	2267	End	2702
GI	none	Score	470
Exons	2267..2701, 2268..2702		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o1.ts	Method	TBLASTX:Soybean
Start	2505	End	3112
GI	5509260	Score	296
Exons	2505..2888, 2507..2887, 2882..3022, 2897..3112, 3060..3110		
GI Descrip.	-		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o1.tw	Method	TBLASTX:Wheat
Start	2525	End	2987
GI	none	Score	286
Exons	2525..2866, 2532..2864, 2662..2868, 2721..2876, 2868..2894, 2897..2971, 2898..2987		

Seq. No.	30091	Seq. ID	OJ990619_51.9920.C12
Gene No.	62013	Strand	-
Start	1478	End	5290
Name	OJ990619_51.9920.C12.o3.tc	Method	TBLASTX:Cress

Start 2624  
 GI none  
 Exons 2624..2905, 2643..2903

End 2905  
 Score 91

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o4.tm  
 Start 2820  
 GI none  
 Exons 2820..3137, 2822..3139

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Maize  
 End 3139  
 Score 360

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o2.tm  
 Start 3146  
 GI none  
 Exons 3146..3946, 3228..3269, 3273..3947, 3956..4009, 3963..4004

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Maize  
 End 4009  
 Score 45

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o4.tw  
 Start 3251  
 GI none  
 Exons 3251..3331, 3251..3331, 3331..3396, 3342..3506, 3353..3517, 3506..3595, 3517..3585, 3519..3593

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Wheat  
 End 3595  
 Score 45

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o3.ts  
 Start 3377  
 GI none  
 Exons 3377..3838, 3461..3814, 3528..3818

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Soybean  
 End 3838  
 Score 113

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o1.tc  
 Start 3380  
 GI none  
 Exons 3380..3802

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Cress  
 End 3802  
 Score 220

Seq. No. 30091  
 Gene No. 62013  
 Start 1478  
 Name OJ990619\_51.9920.C12.o2.tw  
 Start 3683  
 GI none  
 Exons 3683..3979, 3684..3959

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 5290  
 Method TBLASTX:Wheat  
 End 3979  
 Score 173

Seq. No. 30091  
 Gene No. 62014  
 Start 5804  
 Name OJ990619\_51.9920.C12.o5.tm

Seq. ID OJ990619\_51.9920.C12  
 Strand -  
 End 6154  
 Method TBLASTX:Maize

Start 5804  
 GI none  
 Exons 5804..6052, 5806..6051

End 6052  
 Score 194

Seq. No. 30091  
 Gene No. 62014  
 Start 5804  
 Name OJ990619\_51.9920.C12.o3.tw  
 Start 5816  
 GI none  
 Exons 5816..5914, 5833..5913, 5881..6120, 5897..6154

Seq. ID OJ990619\_51.9920.C12  
 Strand  
 End 6154  
 Method TBLASTX:Wheat  
 End 6154  
 Score 117

Seq. No. 30091  
 Gene No. 62015  
 Start 6892  
 Name OJ990619\_51.9920.C12.o5.tw  
 Start 6892  
 GI none  
 Exons 6892..7065, 6893..7186, 7087..7188

Seq. ID OJ990619\_51.9920.C12  
 Strand  
 End 7188  
 Method TBLASTX:Wheat  
 End 7188  
 Score 217

Seq. No. 30092  
 Gene No. 62016  
 Start 1  
 Name OJ990619\_51.9920.C13.o1.np  
 Start 1  
 GI 6498441  
 Exons 1..145, 209..830  
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. ID OJ990619\_51.9920.C13  
 Strand +  
 End 830  
 Method AAT/NAP  
 End 830  
 Score 879

Seq. No. 30092  
 Gene No. 62016  
 Start 1  
 Name OJ990619\_51.9920.C13.o1.tm  
 Start 185  
 GI none  
 Exons 185..274, 287..520, 295..519

Seq. ID OJ990619\_51.9920.C13  
 Strand +  
 End 830  
 Method TBLASTX:Maize  
 End 520  
 Score 53

Seq. No. 30092  
 Gene No. 62016  
 Start 1  
 Name OJ990619\_51.9920.C13.o1.tw  
 Start 216  
 GI none  
 Exons 216..509, 217..519, 218..520

Seq. ID OJ990619\_51.9920.C13  
 Strand +  
 End 830  
 Method TBLASTX:Wheat  
 End 520  
 Score 134

Seq. No. 30092  
 Gene No. 62016  
 Start 1  
 Name OJ990619\_51.9920.C13.o2.tw  
 Start 521  
 GI none  
 Exons 521..661, 523..657, 660..722, 662..721

Seq. ID OJ990619\_51.9920.C13  
 Strand +  
 End 830  
 Method TBLASTX:Wheat  
 End 722  
 Score 137

Seq. No. 30093  
 Gene No. 62017

Seq. ID OJ990619\_51.9920.C14  
 Strand -

Start	60	End	3950
Name	OJ990619_51.9920.C14.o1.gs	Method	GENSCAN
Start	60	End	3950
GI	none	Score	.59
Exons	60..416, 949..1110, 2341..2769, 2814..3072, 3174..3374, 3948..3950		

Seq. No.	30093	Seq. ID	OJ990619_51.9920.C14
Gene No.	62017	Strand	-
Start	60	End	3950
Name	OJ990619_51.9920.C14.o1.np	Method	AAT/NAP
Start	115	End	1292
GI	2792210	Score	641
Exons	115..1292		
GI Descrip.	(AF032683) NBS-LRR type resistance protein [Hordeum vulgare]		

Seq. No.	30093	Seq. ID	OJ990619_51.9920.C14
Gene No.	62017	Strand	-
Start	60	End	3950
Name	OJ990619_51.9920.C14.o1.ts	Method	TBLASTX:Soybean
Start	163	End	618
GI	none	Score	266
Exons	163..258, 253..618		

Seq. No.	30093	Seq. ID	OJ990619_51.9920.C14
Gene No.	62017	Strand	-
Start	60	End	3950
Name	OJ990619_51.9920.C14.o1.tm	Method	TBLASTX:Maize
Start	791	End	1081
GI	none	Score	81
Exons	791..913, 798..911, 974..1081		

Seq. No.	30094	Seq. ID	OJ990619_51.9920.C15
Gene No.	62018	Strand	-
Start	1	End	644
Name	OJ990619_51.9920.C15.o1.np	Method	AAT/NAP
Start	1	End	644
GI	2498930	Score	742
Exons	1..417, 585..644		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62019	Strand	+
Start	170	End	267
Name	OJ990619_51.9920.C16.o1.gs	Method	GENSCAN
Start	170	End	267
GI	none	Score	.69
Exons	170..267		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62020	Strand	+
Start	733	End	2606
Name	OJ990619_51.9920.C16.o1.gp	Method	AAT/GAP
Start	678	End	1189
GI	none	Score	846
Exons	678..1189		



Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62020	Strand	+
Start	733	End	2606
Name	OJ990619_51.9920.C16.o2.gs	Method	GENSCAN
Start	733	End	2594
GI	none	Score	.67
Exons	733..1038, 1076..1187, 1759..2594		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62020	Strand	+
Start	733	End	2606
Name	OJ990619_51.9920.C16.o1.np	Method	AAT/NAP
Start	736	End	2606
GI	6899926	Score	533
Exons	736..891, 961..1202, 1743..2606		
GI Descrip.	(AL138651) putative protein [Arabidopsis thaliana]		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62020	Strand	+
Start	733	End	2606
Name	OJ990619_51.9920.C16.o2.gp	Method	AAT/GAP
Start	1880	End	2061
GI	none	Score	317
Exons	1880..2061		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62021	Strand	+
Start	2550	End	2921
Name	OJ990619_51.9920.C16.o4.gp	Method	AAT/GAP
Start	2550	End	2921
GI	5002753	Score	723
Exons	2550..2921		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62022	Strand	-
Start	1384	End	3240
Name	OJ990619_51.9920.C16.o1.tm	Method	TBLASTX:Maize
Start	732	End	2588
GI	none	Score	81
Exons	732..836, 732..866, 733..870, 1000..1035, 1042..1155, 1043..1156, 1138..1227, 1156..1230, 1753..1812, 1755..1811, 1814..1909, 1815..2042, 1815..1967, 2037..2333, 2048..2332, 2258..2587, 2325..2588		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62022	Strand	-
Start	1384	End	3240
Name	OJ990619_51.9920.C16.o2.np	Method	AAT/NAP
Start	1384	End	3240
GI	5852093	Score	65
Exons	1384..1413, 3131..3240		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	30095	Seq. ID	OJ990619_51.9920.C16
Gene No.	62022	Strand	-
Start	1384	End	3240

Name OJ990619\_51.9920.C16.o3.gp  
 Start 2059  
 GI none  
 Exons 2059..2873

Method AAT/GAP  
 End 2873  
 Score 1437

Seq. No. 30095  
 Gene No. 62022  
 Start 1384  
 Name OJ990619\_51.9920.C16.o1.tw  
 Start 2283  
 GI none  
 Exons 2283..2522, 2291..2473

Seq. ID OJ990619\_51.9920.C16  
 Strand -  
 End 3240  
 Method TBLASTX:Wheat  
 End 2522  
 Score 189

Seq. No. 30096  
 Gene No. 62023  
 Start 1158  
 Name OJ990619\_51.9920.C17.o1.gs  
 Start 1158  
 GI none  
 Exons 1158..2369, 2902..2919

Seq. ID OJ990619\_51.9920.C17  
 Strand +  
 End 2919  
 Method GENSCAN  
 End 2919  
 Score .85

Seq. No. 30096  
 Gene No. 62024  
 Start 4552  
 Name OJ990619\_51.9920.C17.o2.gs  
 Start 4552  
 GI none  
 Exons 4552..4641, 4686..4913

Seq. ID OJ990619\_51.9920.C17  
 Strand +  
 End 4913  
 Method GENSCAN  
 End 4913  
 Score .81

Seq. No. 30096  
 Gene No. 62025  
 Start 5253  
 Name OJ990619\_51.9920.C17.o3.gs  
 Start 5253  
 GI none  
 Exons 5253..5289, 5321..5626, 5715..6098, 6374..7203, 7333..7506, 7561..7737, 7813..9476, 9555..9784, 9833..10002, 10186..10500, 10666..10944

Seq. ID OJ990619\_51.9920.C17  
 Strand +  
 End 10944  
 Method GENSCAN  
 End 10944  
 Score .76

Seq. No. 30096  
 Gene No. 62025  
 Start 5253  
 Name OJ990619\_51.9920.C17.o1.np  
 Start 7822  
 GI 5902445  
 Exons 7822..9657, 9697..10941  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ990619\_51.9920.C17  
 Strand +  
 End 10944  
 Method AAT/NAP  
 End 10941  
 Score 3047

Seq. No. 30096  
 Gene No. 62026  
 Start 11810  
 Name OJ990619\_51.9920.C17.o1.tc  
 Start 1176  
 GI none  
 Exons 1176..1307, 1416..1739, 1508..1726, 1806..1877, 1956..2099, 1958..2095, 1959..2108, 2169..2363, 2222..2326, 2403..2438, 2462..2545, 2473..2553

Seq. ID OJ990619\_51.9920.C17  
 Strand -  
 End 15364  
 Method TBLASTX:Cress  
 End 2553  
 Score 76

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o5.tm	Method	TBLASTX:Maize
Start	1400	End	1645
GI	none	Score	218
Exons	1400..1645, 1401..1643		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o1.ts	Method	TBLASTX:Soybean
Start	1422	End	2545
GI	none	Score	130
Exons	1422..1631, 1677..1799, 1899..1922, 1920..2105, 2169..2369, 2183..2314, 2474..2545		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o8.tw	Method	TBLASTX:Wheat
Start	1968	End	2354
GI	none	Score	102
Exons	1968..2102, 2169..2354, 2181..2348		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o3.tm	Method	TBLASTX:Maize
Start	1973	End	12026
GI	none	Score	177
Exons	1973..2107, 1974..2108, 1974..2114, 2163..2291, 2183..2296, 11796..12026		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o7.tw	Method	TBLASTX:Wheat
Start	6139	End	6537
GI	none	Score	243
Exons	6139..6537, 6153..6191, 6264..6446		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o4.tw	Method	TBLASTX:Wheat
Start	7120	End	7575
GI	none	Score	154
Exons	7120..7302, 7128..7301, 7339..7575, 7341..7457, 7351..7560		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o1.tw	Method	TBLASTX:Wheat
Start	7767	End	8222
GI	none	Score	537

Exons 7767..8222, 7768..8211, 7806..8222

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o1.tm	Method	TBLASTX:Maize
Start	7897	End	8253
GI	none	Score	406
Exons	7897..8253, 7932..8252		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o4.tm	Method	TBLASTX:Maize
Start	8281	End	8664
GI	none	Score	312
Exons	8281..8664, 8316..8393, 8448..8663		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o2.tw	Method	TBLASTX:Wheat
Start	8338	End	8762
GI	none	Score	445
Exons	8338..8760, 8341..8727, 8448..8762		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o2.ts	Method	TBLASTX:Soybean
Start	8449	End	8817
GI	none	Score	270
Exons	8449..8817, 8451..8567		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o6.tw	Method	TBLASTX:Wheat
Start	8907	End	9315
GI	none	Score	196
Exons	8907..9134, 8908..9132, 9142..9315, 9160..9312		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o9.tw	Method	TBLASTX:Wheat
Start	9355	End	9612
GI	none	Score	176
Exons	9355..9612		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o2.tm	Method	TBLASTX:Maize
Start	9817	End	10122
GI	none	Score	331
Exons	9817..10122, 9834..10121		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o5.tw	Method	TBLASTX:Wheat
Start	9817	End	10200
GI	none	Score	339
Exons	9817..10200, 9825..10199		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o3.tw	Method	TBLASTX:Wheat
Start	10324	End	10932
GI	none	Score	342
Exons	10324..10776, 10339..10434, 10473..10580, 10801..10932		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o4.gs	Method	GENSCAN
Start	11810	End	15349
GI	none	Score	.61
Exons	11810..12051, 12177..12322, 12451..12746, 12783..13147, 13272..13338, 13409..13597, 13665..13789, 13869..14171, 14484..14611, 15007..15081, 15188..15209, 15265..15349		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o2.np	Method	AAT/NAP
Start	12450	End	14065
GI	6721561	Score	1079
Exons	12450..13212, 13280..13338, 13409..13597, 13995..14065		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	30096	Seq. ID	OJ990619_51.9920.C17
Gene No.	62026	Strand	-
Start	11810	End	15364
Name	OJ990619_51.9920.C17.o3.np	Method	AAT/NAP
Start	13882	End	15364
GI	6539586	Score	196
Exons	13882..14088, 14136..14489, 15247..15364		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62027	Strand	+
Start	2711	End	3905
Name	OJ990619_51.9920.C18.o2.gs	Method	GENSCAN
Start	2711	End	3905
GI	none	Score	.83
Exons	2711..2927, 3257..3314, 3374..3580, 3599..3905		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62028	Strand	+
Start	5061	End	9828
Name	OJ990619_51.9920.C18.o4.gs	Method	GENSCAN
Start	5061	End	8036
GI	none	Score	.68
Exons	5061..6062, 6138..6311, 6316..6421, 6783..6821, 7725..7915, 8013..8036		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62028	Strand	+
Start	5061	End	9828
Name	OJ990619_51.9920.C18.o1.np	Method	AAT/NAP
Start	5070	End	9828
GI	130582	Score	529
Exons	5070..6128, 9809..9828		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62029	Strand	+
Start	10226	End	11046
Name	OJ990619_51.9920.C18.o3.np	Method	AAT/NAP
Start	10226	End	11046
GI	4895224	Score	55
Exons	10226..10413, 11000..11046		
GI Descrip.	(AC007660) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62030	Strand	-
Start	3011	End	3472
Name	OJ990619_51.9920.C18.o1.gp	Method	AAT/GAP
Start	3011	End	3472
GI	2309682	Score	736
Exons	3011..3472		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62031	Strand	-
Start	4166	End	4816
Name	OJ990619_51.9920.C18.o3.gs	Method	GENSCAN
Start	4166	End	4816
GI	none	Score	.96
Exons	4166..4816		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o2.np	Method	AAT/NAP
Start	8584	End	10699
GI	3935156	Score	751
Exons	8584..9530, 9579..10061, 10543..10699		
GI Descrip.	(AC005106) T25N20.20 [Arabidopsis thaliana]		

Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
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Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o5.gs	Method	GENSCAN
Start	8608	End	10083
GI	none	Score	.66
Exons	8608..10083		
Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o1.ts	Method	TBLASTX:Soybean
Start	8758	End	9807
GI	none	Score	144
Exons	8758..9015, 8861..9019, 9106..9252, 9116..9265, 9310..9333, 9346..9405, 9493..9546, 9646..9807		
Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o1.tc	Method	TBLASTX:Cress
Start	8824	End	10068
GI	none	Score	130
Exons	8824..9015, 8855..8965, 8920..8967, 8996..9019, 9115..9249, 9116..9256, 9349..9489, 9493..9546, 9559..9819, 9563..9805, 9817..9870, 9934..10068		
Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o1.tm	Method	TBLASTX:Maize
Start	8824	End	9405
GI	none	Score	108
Exons	8824..9015, 8876..9013, 9088..9258, 9089..9256, 9276..9308, 9355..9405		
Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o1.tw	Method	TBLASTX:Wheat
Start	8848	End	9243
GI	none	Score	135
Exons	8848..9015, 8873..9019, 8970..9017, 9095..9238, 9097..9243		
Seq. No.	30097	Seq. ID	OJ990619_51.9920.C18
Gene No.	62032	Strand	-
Start	8608	End	10699
Name	OJ990619_51.9920.C18.o2.tm	Method	TBLASTX:Maize
Start	9605	End	9889
GI	none	Score	189
Exons	9605..9889, 9637..9888		
Seq. No.	30098	Seq. ID	OJ990619_51.9920.C19
Gene No.	62033	Strand	+
Start	2013	End	2580
Name	OJ990619_51.9920.C19.o1.gp	Method	AAT/GAP
Start	2013	End	2580
GI	4040_1.R1084	Score	1120

Exons 2013..2580  
 GI Descrip. '2947060 3.0e-18 (AC002521) putative membrane protein [Arabidopsis thaliana]'

Seq. No.	30098	Seq. ID	OJ990619_51.9920.C19
Gene No.	62034	Strand	-
Start	2380	End	2596
Name	OJ990619_51.9920.C19.o1.tm	Method	TBLASTX:Maize
Start	2295	End	2596
GI	none	Score	60
Exons	2295..2366, 2307..2375, 2349..2510, 2390..2596, 2390..2596		

Seq. No.	30098	Seq. ID	OJ990619_51.9920.C19
Gene No.	62034	Strand	-
Start	2380	End	2596
Name	OJ990619_51.9920.C19.o1.np	Method	AAT/NAP
Start	2380	End	2596
GI	2947060	Score	249
Exons	2380..2596		
GI Descrip.	(AC002521) unknown protein [Arabidopsis thaliana]		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62035	Strand	+
Start	2028	End	3624
Name	OJ990619_51.9920.C20.o2.np	Method	AAT/NAP
Start	2028	End	3624
GI	81286	Score	117
Exons	2028..2115, 2676..2962, 3485..3624		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62035	Strand	+
Start	2028	End	3624
Name	OJ990619_51.9920.C20.o2.gs	Method	GENSCAN
Start	2699	End	2992
GI	none	Score	.86
Exons	2699..2992		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62036	Strand	+
Start	7375	End	7917
Name	OJ990619_51.9920.C20.o4.np	Method	AAT/NAP
Start	7375	End	7917
GI	5281037	Score	105
Exons	7375..7676, 7842..7917		
GI Descrip.	(AL080318) putative transposase [Arabidopsis thaliana]		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62037	Strand	-
Start	1	End	2123
Name	OJ990619_51.9920.C20.o1.np	Method	AAT/NAP
Start	1	End	2066
GI	2947060	Score	453
Exons	1..229, 628..658, 1458..1597, 1727..1824, 1963..2066		
GI Descrip.	(AC002521) unknown protein [Arabidopsis thaliana]		



Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62037	Strand	-
Start	1	End	2123
Name	OJ990619_51.9920.C20.o1.gp	Method	AAT/GAP
Start	126	End	2116
GI	7928_1.R1084	Score	850
Exons	126..229, 628..658, 1458..1597, 1727..1824, 1963..2116		
GI Descrip.	'2947060 1.0e-102 (AC002521) putative membrane protein [Arabidopsis thaliana]'		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62037	Strand	-
Start	1	End	2123
Name	OJ990619_51.9920.C20.o1.gs	Method	GENSCAN
Start	126	End	2123
GI	none	Score	.82
Exons	126..229, 628..658, 1458..1597, 1727..1824, 1963..2123		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62038	Strand	-
Start	3419	End	3778
Name	OJ990619_51.9920.C20.o3.gs	Method	GENSCAN
Start	3419	End	3778
GI	none	Score	.79
Exons	3419..3424, 3518..3652, 3722..3778		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62039	Strand	-
Start	5787	End	6098
Name	OJ990619_51.9920.C20.o1.tm	Method	TBLASTX:Maize
Start	5787	End	6098
GI	none	Score	55
Exons	5787..5834, 5853..6098, 5864..6067		

Seq. No.	30099	Seq. ID	OJ990619_51.9920.C20
Gene No.	62040	Strand	-
Start	6393	End	6749
Name	OJ990619_51.9920.C20.o2.tm	Method	TBLASTX:Maize
Start	6393	End	6749
GI	none	Score	143
Exons	6393..6488, 6398..6487, 6567..6749, 6572..6730		

Seq. No.	30100	Seq. ID	OJ990619_51.9920.C21
Gene No.	62041	Strand	-
Start	27	End	1515
Name	OJ990619_51.9920.C21.o1.gs	Method	GENSCAN
Start	27	End	1515
GI	none	Score	.45
Exons	27..166, 197..314, 358..568, 1069..1515		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.gp	Method	AAT/GAP
Start	1126	End	1884
GI	57500_1.R1084	Score	1429
Exons	1126..1884		

GI Descrip. '5669634/gb|AAD46402.1|AF096246\_1 5.0e-25 (AF096246)  
ethylene-responsive transcriptional coactivator [Lycopersicon  
esculentum]'

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.gs	Method	GENSCAN
Start	1173	End	1640
GI	none	Score	.74
Exons	1173..1640		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.np	Method	AAT/NAP
Start	1176	End	1613
GI	5669634	Score	395
Exons	1176..1613		
GI Descrip.	(AF096246) ethylene-responsive transcriptional coactivator [Lycopersicon esculentum]		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.tc	Method	TBLASTX:Cress
Start	1190	End	1595
GI	none	Score	125
Exons	1190..1318, 1194..1319, 1371..1595, 1373..1594		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.tm	Method	TBLASTX:Maize
Start	1190	End	1595
GI	none	Score	118
Exons	1190..1312, 1194..1319, 1371..1595, 1463..1594		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.ts	Method	TBLASTX:Soybean
Start	1194	End	1595
GI	none	Score	121
Exons	1194..1319, 1208..1312, 1371..1595		

Seq. No.	30101	Seq. ID	OJ990619_51.9920.C22
Gene No.	62042	Strand	+
Start	1126	End	1884
Name	OJ990619_51.9920.C22.o1.tw	Method	TBLASTX:Wheat
Start	1371	End	1595
GI	none	Score	184
Exons	1371..1595, 1472..1594		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881

Name	OJ990619_51.9920.C23.o1.ts	Method	TBLASTX:Soybean
Start	161	End	1715
GI	none	Score	242
Exons	161..460, 175..456, 645..737, 674..748, 836..958, 838..978, 1122..1295, 1147..1281, 1365..1547, 1375..1548, 1616..1714, 1620..1715		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o1.tm	Method	TBLASTX:Maize
Start	175	End	1717
GI	none	Score	144
Exons	175..456, 206..469, 648..749, 674..748, 826..978, 827..940, 1128..1283, 1135..1281, 1374..1547, 1441..1545, 1616..1717, 1629..1715		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o1.gs	Method	GENSCAN
Start	181	End	1714
GI	none	Score	.79
Exons	181..454, 578..595, 675..736, 838..975, 1143..1547, 1625..1714		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o1.np	Method	AAT/NAP
Start	184	End	1881
GI	4056462	Score	716
Exons	184..454, 675..736, 838..975, 1143..1280, 1374..1547, 1625..1714, 1775..1881		
GI Descrip.	(AC005990) Strong similarity to gb Y09876 aldehyde dehydrogenase (NAD+) from Nicotiana tabacum and a member of the aldehyde dehydrogenase family PF 00171. ESTs gb F15117, gb R83958 and gb 586262 come from this gene. [Arabidopsis thaliana]		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o1.tc	Method	TBLASTX:Cress
Start	266	End	1720
GI	none	Score	48
Exons	266..319, 319..450, 323..469, 648..749, 677..748, 838..933, 928..978, 1140..1283, 1171..1341, 1374..1547, 1378..1548, 1616..1720, 1629..1715		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o2.tw	Method	TBLASTX:Wheat
Start	277	End	469
GI	none	Score	101
Exons	277..465, 278..469		

Seq. No.	30102	Seq. ID	OJ990619_51.9920.C23
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Gene No.	62043	Strand	-
Start	181	End	1881
Name	OJ990619_51.9920.C23.o1.tw	Method	TBLASTX:Wheat
Start	674	End	1717
GI	none	Score	63
Exons	674..712, 826..879, 895..975, 1128..1280, 1377..1433, 1428..1499, 1491..1547, 1616..1717, 1644..1712		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62044	Strand	+
Start	943	End	1169
Name	OJ990619_51.9920.C24.o2.np	Method	AAT/NAP
Start	943	End	1169
GI	82520	Score	185
Exons	943..1169		
GI Descrip.	hypothetical 16K protein (rbcL-psaI intergenic region) - rice chloroplast gi 11994 emb CAA34006  (X15901) ORF133 [Oryza sativa] gi 226615 prf  1603356AM ORF 133 [Oryza sativa]		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.gs	Method	GENSCAN
Start	207	End	815
GI	none	Score	.62
Exons	207..590, 673..815		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.np	Method	AAT/NAP
Start	207	End	2077
GI	1743354	Score	419
Exons	207..590, 673..833, 2044..2077		
GI Descrip.	(Y09876) aldehyde dehydrogenase (NAD+) [Nicotiana tabacum]		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.ts	Method	TBLASTX:Soybean
Start	210	End	829
GI	none	Score	174
Exons	210..260, 258..611, 259..456, 315..557, 671..829, 682..825		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.tc	Method	TBLASTX:Cress
Start	216	End	829
GI	none	Score	123
Exons	216..611, 232..381, 409..450, 682..825, 689..829		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.tm	Method	TBLASTX:Maize
Start	216	End	829

GI	none	Score	154
Exons	216..374, 232..450, 414..611, 682..825, 689..829		
Seq. No.	30103	Seq. ID	OJ990619_51.9920.C24
Gene No.	62045	Strand	-
Start	207	End	2077
Name	OJ990619_51.9920.C24.o1.tw	Method	TBLASTX:Wheat
Start	417	End	817
GI	none	Score	114
Exons	417..581, 417..611, 677..817, 682..816		
Seq. No.	30104	Seq. ID	OJ990619_51.9920.C25
Gene No.	62046	Strand	-
Start	745	End	3181
Name	OJ990619_51.9920.C25.o1.gs	Method	GENSCAN
Start	745	End	3181
GI	none	Score	.4
Exons	745..1005, 2374..2546, 3044..3181		
Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62047	Strand	+
Start	1	End	6788
Name	OJ990619_51.9920.C26.o1.np	Method	AAT/NAP
Start	1	End	6788
GI	5852180	Score	519
Exons	1..166, 1145..1263, 1315..1728, 6727..6788		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62047	Strand	+
Start	1	End	6788
Name	OJ990619_51.9920.C26.o1.gs	Method	GENSCAN
Start	51	End	353
GI	none	Score	.45
Exons	51..166, 263..353		
Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62047	Strand	+
Start	1	End	6788
Name	OJ990619_51.9920.C26.o2.np	Method	AAT/NAP
Start	1185	End	5843
GI	2130141	Score	1030
Exons	1185..1262, 2566..2790, 2875..4355, 5816..5843		
GI Descrip.	mudrA protein - maize transposon MuDR gi 540581 (M76978) mudrA [Zea mays] gi 595816 (U14597) mudrA gene product [Zea mays]		
Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62047	Strand	+
Start	1	End	6788
Name	OJ990619_51.9920.C26.o3.gs	Method	GENSCAN
Start	2941	End	4090
GI	none	Score	.5
Exons	2941..4072, 4077..4090		
Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62048	Strand	-
Start	16	End	396

Name	OJ990619_51.9920.C26.o1.gp	Method	AAT/GAP
Start	16	End	396
GI	uC-osflcyp033a04b1	Score	646
Exons	16..396		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62049	Strand	-
Start	824	End	1843
Name	OJ990619_51.9920.C26.o2.gs	Method	GENSCAN
Start	824	End	1843
GI	none	Score	.51
Exons	824..900, 1204..1843		

Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62050	Strand	-
Start	2881	End	3249
Name	OJ990619_51.9920.C26.o2.tm	Method	TBLASTX:Maize
Start	2881	End	3249
GI	none	Score	254
Exons	2881..3249, 2898..3191		

Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62051	Strand	-
Start	3253	End	3882
Name	OJ990619_51.9920.C26.o1.tm	Method	TBLASTX:Maize
Start	3253	End	3882
GI	none	Score	432
Exons	3253..3600, 3258..3596, 3577..3882, 3625..3843, 3768..3881		

Seq. No.	30105	Seq. ID	OJ990619_51.9920.C26
Gene No.	62052	Strand	-
Start	3997	End	4317
Name	OJ990619_51.9920.C26.o3.tm	Method	TBLASTX:Maize
Start	3997	End	4317
GI	none	Score	102
Exons	3997..4119, 4140..4316, 4144..4317		

Seq. No.	30106	Seq. ID	OJ990619_51.9920.C27
Gene No.	62053	Strand	-
Start	113	End	1100
Name	OJ990619_51.9920.C27.o1.tm	Method	TBLASTX:Maize
Start	95	End	783
GI	none	Score	61
Exons	95..193, 149..340, 314..505, 548..766, 559..783		

Seq. No.	30106	Seq. ID	OJ990619_51.9920.C27
Gene No.	62053	Strand	-
Start	113	End	1100
Name	OJ990619_51.9920.C27.o1.gs	Method	GENSCAN
Start	113	End	993
GI	none	Score	.57
Exons	113..526, 727..993		

Seq. No.	30106	Seq. ID	OJ990619_51.9920.C27
Gene No.	62053	Strand	-

Start 113  
 Name OJ990619\_51.9920.C27.o1.tw  
 Start 233  
 GI none  
 Exons 233..529, 234..506

End 1100  
 Method TBLASTX:Wheat  
 End 529  
 Score 140

Seq. No. 30106  
 Gene No. 62053  
 Start 113  
 Name OJ990619\_51.9920.C27.o2.tw  
 Start 850  
 GI none  
 Exons 850..960, 863..961, 869..961,

Seq. ID OJ990619\_51.9920.C27  
 Strand -  
 End 1100  
 Method TBLASTX:Wheat  
 End 1100  
 Score 67  
 975..1100, 975..1061

Seq. No. 30107  
 Gene No. 62054  
 Start 217  
 Name OJ990619\_51.9920.C28.o1.gs  
 Start 217  
 GI none  
 Exons 217..439

Seq. ID OJ990619\_51.9920.C28  
 Strand -  
 End 439  
 Method GENSCAN  
 End 439  
 Score .91

Seq. No. 30108  
 Gene No. 62055  
 Start 56  
 Name OJ990619\_51.9920.C29.o1.gs  
 Start 56  
 GI none  
 Exons 56..633, 841..874, 880..1056, 1070..1336, 1481..1903, 2397..2955, 3074..3121, 3460..3632

Seq. ID OJ990619\_51.9920.C29  
 Strand -  
 End 3632  
 Method GENSCAN  
 End 3632  
 Score .4

Seq. No. 30109  
 Gene No. 62056  
 Start 487  
 Name OJ990619\_51.9920.C30.o1.gs  
 Start 487  
 GI none  
 Exons 487..804

Seq. ID OJ990619\_51.9920.C30  
 Strand +  
 End 804  
 Method GENSCAN  
 End 804  
 Score .58

Seq. No. 30110  
 Gene No. 62057  
 Start 1807  
 Name OJ990619\_51.9920.C31.o2.gs  
 Start 1807  
 GI none  
 Exons 1807..2397

Seq. ID OJ990619\_51.9920.C31  
 Strand -  
 End 2397  
 Method GENSCAN  
 End 2397  
 Score 1

Seq. No. 30111  
 Gene No. 62058  
 Start 248  
 Name OJ990619\_51.9920.C32.o1.gs  
 Start 248  
 GI none  
 Exons 248..389

Seq. ID OJ990619\_51.9920.C32  
 Strand -  
 End 389  
 Method GENSCAN  
 End 389  
 Score .45

Seq. No. 30112  
 Gene No. 62059

Seq. ID OJ990519\_31.9924.C1  
 Strand +

Start 898  
 Name OJ990519\_31.9924.C1.o1.gs  
 Start 898  
 GI none  
 Exons 898..1320

End 1320  
 Method GENSCAN  
 End 1320  
 Score .72

Seq. No. 30112  
 Gene No. 62060  
 Start 1619  
 Name OJ990519\_31.9924.C1.o1.np  
 Start 1619  
 GI 6466937  
 Exons 1619..1793, 1942..2278, 3664..3711  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. ID OJ990519\_31.9924.C1  
 Strand +  
 End 3711  
 Method AAT/NAP  
 End 3711  
 Score 245

Seq. No. 30112  
 Gene No. 62061  
 Start 8443  
 Name OJ990519\_31.9924.C1.o3.gs  
 Start 8443  
 GI none  
 Exons 8443..8545, 10887..11152

Seq. ID OJ990519\_31.9924.C1  
 Strand +  
 End 11152  
 Method GENSCAN  
 End 11152  
 Score .47

Seq. No. 30112  
 Gene No. 62061  
 Start 8443  
 Name OJ990519\_31.9924.C1.o2.np  
 Start 10883  
 GI 6815052  
 Exons 10883..11121  
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. ID OJ990519\_31.9924.C1  
 Strand +  
 End 11152  
 Method AAT/NAP  
 End 11121  
 Score 220

Seq. No. 30112  
 Gene No. 62062  
 Start 3159  
 Name OJ990519\_31.9924.C1.o2.tm  
 Start 2002  
 GI none  
 Exons 2002..2145, 2136..2279, 2174..2287

Seq. ID OJ990519\_31.9924.C1  
 Strand -  
 End 6723  
 Method TBLASTX:Maize  
 End 2287  
 Score 106

Seq. No. 30112  
 Gene No. 62062  
 Start 3159  
 Name OJ990519\_31.9924.C1.o1.tw  
 Start 2129  
 GI none  
 Exons 2129..2269, 2130..2282, 2151..2276

Seq. ID OJ990519\_31.9924.C1  
 Strand -  
 End 6723  
 Method TBLASTX:Wheat  
 End 2282  
 Score 183

Seq. No. 30112  
 Gene No. 62062  
 Start 3159  
 Name OJ990519\_31.9924.C1.o1.gp  
 Start 2960  
 GI none  
 Exons 2960..3504

Seq. ID OJ990519\_31.9924.C1  
 Strand -  
 End 6723  
 Method AAT/GAP  
 End 3504  
 Score 980



Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o1.tm	Method	TBLASTX:Maize
Start	3135	End	5506
GI	none	Score	340
Exons	3135..3422, 3154..3420, 3399..3596, 3409..3597, 3409..3609, 3425..3598, 4728..4814, 4732..4836, 4732..4842, 4734..4838, 5065..5505, 5065..5505, 5066..5506		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o2.gs	Method	GENSCAN
Start	3159	End	6542
GI	none	Score	.92
Exons	3159..3595, 4719..4834, 5066..5510, 6203..6542		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o1.tc	Method	TBLASTX:Cress
Start	3178	End	3449
GI	none	Score	209
Exons	3178..3447, 3189..3449, 3190..3447		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o1.ts	Method	TBLASTX:Soybean
Start	3189	End	4834
GI	none	Score	302
Exons	3189..3509, 3208..3510, 3266..3547, 3282..3557, 3504..3596, 3505..3597, 4717..4830, 4717..4830, 4739..4834		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o2.gp	Method	AAT/GAP
Start	3469	End	6237
GI	15192_1.R1084	Score	1303
Exons	3469..3595, 4719..4834, 5079..5510, 6203..6237		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o2.ts	Method	TBLASTX:Soybean
Start	5254	End	5506
GI	none	Score	333
Exons	5254..5505, 5255..5506		

Seq. No.	30112	Seq. ID	OJ990519_31.9924.C1
Gene No.	62062	Strand	-
Start	3159	End	6723
Name	OJ990519_31.9924.C1.o3.gp	Method	AAT/GAP

Start 6395  
GI 5038612  
Exons 6395..6723

End 6723  
Score 630

Seq. No. 30113  
Gene No. 62063  
Start 213  
Name OJ990519\_31.9924.C2.o1.gs  
Start 213  
GI none  
Exons 213..274, 1240..1401

Seq. ID OJ990519\_31.9924.C2  
Strand +  
End 1401  
Method GENSCAN  
End 1401  
Score .79

Seq. No. 30113  
Gene No. 62064  
Start 6602  
Name OJ990519\_31.9924.C2.o3.np  
Start 6602  
GI 6815052  
Exons 6602..6759, 6841..6911, 7178..7298, 7598..7697, 8527..8640, 9465..9579, 9628..10299

Seq. ID OJ990519\_31.9924.C2  
Strand +  
End 10299  
Method AAT/NAP  
End 10299  
Score 1490

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 30113  
Gene No. 62065  
Start 1937  
Name OJ990519\_31.9924.C2.o1.np  
Start 1885  
GI 4539665  
Exons 1885..4623

Seq. ID OJ990519\_31.9924.C2  
Strand -  
End 4623  
Method AAT/NAP  
End 4623  
Score 2337

GI Descrip. (AF061282) polyprotein [Sorghum bicolor]

Seq. No. 30113  
Gene No. 62065  
Start 1937  
Name OJ990519\_31.9924.C2.o2.gs  
Start 1937  
GI none  
Exons 1937..2596, 2999..3076

Seq. ID OJ990519\_31.9924.C2  
Strand -  
End 4623  
Method GENSCAN  
End 3076  
Score .51

Seq. No. 30113  
Gene No. 62066  
Start 5359  
Name OJ990519\_31.9924.C2.o2.np  
Start 4843  
GI 6815052  
Exons 4843..4961, 5241..5319, 5401..6131, 6180..6317

Seq. ID OJ990519\_31.9924.C2  
Strand -  
End 6317  
Method AAT/NAP  
End 6317  
Score 1145

GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 30113  
Gene No. 62066  
Start 5359  
Name OJ990519\_31.9924.C2.o3.gs  
Start 5359  
GI none  
Exons 5359..5601

Seq. ID OJ990519\_31.9924.C2  
Strand -  
End 6317  
Method GENSCAN  
End 5601  
Score .51

Seq. No. 30113

Seq. ID OJ990519\_31.9924.C2

Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o9.tw	Method	TBLASTX:Wheat
Start	1313	End	19648
GI	none	Score	129
Exons	1313..1375, 19450..19632, 19451..19648		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o7.tw	Method	TBLASTX:Wheat
Start	1919	End	15773
GI	none	Score	64
Exons	1919..2245, 2115..2240, 15441..15770, 15493..15771, 15657..15773		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o1.tm	Method	TBLASTX:Maize
Start	2102	End	16221
GI	none	Score	67
Exons	2102..2536, 2103..2216, 2253..2339, 2315..2386, 2538..2663, 15636..16061, 15637..15834, 15657..15899, 15901..16062, 16059..16220, 16066..16221		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o1.tw	Method	TBLASTX:Wheat
Start	2252	End	16400
GI	none	Score	79
Exons	2252..2587, 2253..2342, 2471..2587, 2586..2663, 2587..2655, 2672..2842, 2721..2837, 15774..16400, 15775..15834, 15783..16202, 15895..16398		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o3.tm	Method	TBLASTX:Maize
Start	2717	End	16560
GI	none	Score	41
Exons	2717..2998, 2721..2759, 2799..2999, 16269..16559, 16273..16560, 16273..16560		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o2.ts	Method	TBLASTX:Soybean
Start	2801	End	16619
GI	none	Score	132
Exons	2801..3049, 2813..3049, 16359..16619, 16360..16614		
Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o1.tc	Method	TBLASTX:Cress
Start	2825	End	16709

GI	none	Score	91
Exons	2825..2965, 2826..2966, 16383..16526, 16527..16709		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o2.tw	Method	TBLASTX:Wheat
Start	2849	End	16946
GI	none	Score	224
Exons	2849..3307, 2871..3224, 16407..16946, 16411..16764		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o2.tm	Method	TBLASTX:Maize
Start	3405	End	17327
GI	none	Score	83
Exons	3405..3503, 3407..3532, 3467..3547, 3535..3762, 3536..3760, 3538..3762, 16974..17327, 16981..17322		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o3.tw	Method	TBLASTX:Wheat
Start	3407	End	17399
GI	none	Score	80
Exons	3407..3532, 3408..3503, 3535..3780, 3536..3754, 3538..3768, 3752..3832, 16974..17324, 16974..17399, 16981..17397		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o3.ts	Method	TBLASTX:Soybean
Start	3577	End	17393
GI	none	Score	207
Exons	3577..3780, 17145..17393		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o5.tm	Method	TBLASTX:Maize
Start	3770	End	17666
GI	none	Score	89
Exons	3770..3850, 3862..4113, 3878..4048, 17334..17666, 17335..17613		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o1.ts	Method	TBLASTX:Soybean
Start	3859	End	17810
GI	none	Score	220
Exons	3859..4209, 3860..4207, 17415..17666, 17425..17658, 17445..17771, 17721..17774, 17731..17772, 17778..17810, 17778..17810		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-

Start	15393	End	20894
Name	OJ990519_31.9924.C2.o5.tw	Method	TBLASTX:Wheat
Start	3859	End	17682
GI	none	Score	175
Exons	3859..4137, 3878..4099, 17400..17663, 17401..17664, 17584..17682		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o4.tm	Method	TBLASTX:Maize
Start	4132	End	18168
GI	none	Score	69
Exons	4132..4386, 4391..4558, 17721..18164, 17926..18168		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o4.tw	Method	TBLASTX:Wheat
Start	4186	End	18234
GI	none	Score	80
Exons	4186..4392, 4216..4392, 4223..4402, 4391..4558, 4392..4601, 4591..4671, 17751..18233, 17754..18122, 17836..18234		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o4.ts	Method	TBLASTX:Soybean
Start	4318	End	18197
GI	none	Score	193
Exons	4318..4386, 4397..4558, 17883..18197		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o7.tm	Method	TBLASTX:Maize
Start	4621	End	18362
GI	none	Score	105
Exons	4621..4734, 4625..4723, 18171..18362, 18217..18324		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o5.gs	Method	GENSCAN
Start	15393	End	20831
GI	none	Score	.58
Exons	15393..16804, 16886..17131, 17570..18414, 18440..19812, 20223..20573, 20664..20831		

Seq. No.	30113	Seq. ID	OJ990519_31.9924.C2
Gene No.	62067	Strand	-
Start	15393	End	20894
Name	OJ990519_31.9924.C2.o4.np	Method	AAT/NAP
Start	15396	End	19856
GI	4680179	Score	5598
Exons	15396..18792, 18820..19856		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No. 30113  
 Gene No. 62067  
 Start 15393  
 Name OJ990519\_31.9924.C2.o8.tw  
 Start 18445  
 GI none  
 Exons 18445..18714

Seq. ID OJ990519\_31.9924.C2  
 Strand -  
 End 20894  
 Method TBLASTX:Wheat  
 End 18714  
 Score 221

Seq. No. 30113  
 Gene No. 62067  
 Start 15393  
 Name OJ990519\_31.9924.C2.o6.tw  
 Start 19048  
 GI none  
 Exons 19048..19398, 19204..19401

Seq. ID OJ990519\_31.9924.C2  
 Strand -  
 End 20894  
 Method TBLASTX:Wheat  
 End 19401  
 Score 83

Seq. No. 30113  
 Gene No. 62067  
 Start 15393  
 Name OJ990519\_31.9924.C2.o6.tm  
 Start 19060  
 GI none  
 Exons 19060..19398

Seq. ID OJ990519\_31.9924.C2  
 Strand -  
 End 20894  
 Method TBLASTX:Maize  
 End 19398  
 Score 248

Seq. No. 30113  
 Gene No. 62067  
 Start 15393  
 Name OJ990519\_31.9924.C2.o5.np  
 Start 20098  
 GI 4512231  
 Exons 20098..20894  
 GI Descrip. (AB014741) ORF0 protein [Oryza sativa]

Seq. ID OJ990519\_31.9924.C2  
 Strand -  
 End 20894  
 Method AAT/NAP  
 End 20894  
 Score 1204

Seq. No. 30114  
 Gene No. 62068  
 Start 218  
 Name OJ990519\_31.9924.C3.o1.gs  
 Start 218  
 GI none  
 Exons 218..299, 1061..1194, 1217..1426

Seq. ID OJ990519\_31.9924.C3  
 Strand +  
 End 1426  
 Method GENSCAN  
 End 1426  
 Score .45

Seq. No. 30114  
 Gene No. 62069  
 Start 31  
 Name OJ990519\_31.9924.C3.o1.np  
 Start 31  
 GI 6063554  
 Exons 31..205, 1196..1437, 1555..1594  
 GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ990519\_31.9924.C3  
 Strand -  
 End 1594  
 Method AAT/NAP  
 End 1594  
 Score 186

Seq. No. 30115  
 Gene No. 62070  
 Start 1  
 Name OJ990519\_31.9924.C4.o1.np  
 Start 1

Seq. ID OJ990519\_31.9924.C4  
 Strand +  
 End 906  
 Method AAT/NAP  
 End 903

GI 6498436 Score 375  
 Exons 1..41, 295..530, 782..903  
 GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No. 30115 Seq. ID OJ990519\_31.9924.C4  
 Gene No. 62070 Strand +  
 Start 1 End 906  
 Name OJ990519\_31.9924.C4.o1.gs Method GENSCAN  
 Start 295 End 906  
 GI none Score .48  
 Exons 295..454, 782..906

Seq. No. 30115 Seq. ID OJ990519\_31.9924.C4  
 Gene No. 62071 Strand +  
 Start 1187 End 2956  
 Name OJ990519\_31.9924.C4.o1.tm Method TBLASTX:Maize  
 Start 977 End 1606  
 GI none Score 109  
 Exons 977..1075, 1184..1294, 1184..1294, 1185..1295, 1185..1307,  
 1186..1296, 1548..1604, 1560..1598, 1562..1606

Seq. No. 30115 Seq. ID OJ990519\_31.9924.C4  
 Gene No. 62071 Strand +  
 Start 1187 End 2956  
 Name OJ990519\_31.9924.C4.o2.np Method AAT/NAP  
 Start 1187 End 2956  
 GI 2746335 Score 31  
 Exons 1187..1294, 1560..1594, 2917..2956  
 GI Descrip. (AF037205) RING zinc finger protein [Mus musculus]

Seq. No. 30116 Seq. ID OJ990519\_31.9924.C5  
 Gene No. 62072 Strand +  
 Start 272 End 2356  
 Name OJ990519\_31.9924.C5.o1.np Method AAT/NAP  
 Start 272 End 2356  
 GI 6907087 Score 533  
 Exons 272..417, 773..1714, 2255..2356  
 GI Descrip. (AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a  
 region of the predicted gene.; hypothetical protein [Oryza  
 sativa]

Seq. No. 30116 Seq. ID OJ990519\_31.9924.C5  
 Gene No. 62073 Strand +  
 Start 7427 End 8513  
 Name OJ990519\_31.9924.C5.o3.gs Method GENSCAN  
 Start 7427 End 8513  
 GI none Score .83  
 Exons 7427..7740, 7858..8154, 8203..8350, 8403..8513

Seq. No. 30116 Seq. ID OJ990519\_31.9924.C5  
 Gene No. 62074 Strand +  
 Start 12072 End 26502  
 Name OJ990519\_31.9924.C5.o5.gs Method GENSCAN  
 Start 12072 End 18052  
 GI none Score .61  
 Exons 12072..12098, 12778..13021, 14656..15231, 15849..15976,  
 16386..16464, 17139..18052

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62074	Strand	+
Start	12072	End	26502
Name	OJ990519_31.9924.C5.o3.np	Method	AAT/NAP
Start	14576	End	17131
GI	6730668	Score	953
Exons	14576..15231, 15849..15976, 16239..16464, 16848..16975, 17048..17131		
GI Descrip.	(AC007945) F28C11.3 [Arabidopsis thaliana]		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62074	Strand	+
Start	12072	End	26502
Name	OJ990519_31.9924.C5.o4.np	Method	AAT/NAP
Start	14799	End	26502
GI	6721516	Score	328
Exons	14799..15057, 19224..19354, 20688..20802, 21195..21478, 23929..23968, 26361..26502		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62074	Strand	+
Start	12072	End	26502
Name	OJ990519_31.9924.C5.o1.gp	Method	AAT/GAP
Start	15848	End	16474
GI	LIB3432-016-P1-K1-G11	Score	656
Exons	15848..15976, 16239..16474		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62074	Strand	+
Start	12072	End	26502
Name	OJ990519_31.9924.C5.o6.np	Method	AAT/NAP
Start	25459	End	25548
GI	4680183	Score	125
Exons	25459..25548		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62075	Strand	-
Start	736	End	2146
Name	OJ990519_31.9924.C5.o1.gs	Method	GENSCAN
Start	736	End	2146
GI	none	Score	.89
Exons	736..1784, 1789..1999, 2069..2146		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62076	Strand	-
Start	2249	End	4696
Name	OJ990519_31.9924.C5.o2.gs	Method	GENSCAN
Start	2249	End	2859
GI	none	Score	.78
Exons	2249..2355, 2799..2859		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
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Gene No.	62076	Strand	-
Start	2249	End	4696
Name	OJ990519_31.9924.C5.o2.np	Method	AAT/NAP
Start	2747	End	4696
GI	4680186	Score	227
Exons	2747..2952, 4574..4696		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62077	Strand	-
Start	19971	End	20540
Name	OJ990519_31.9924.C5.o2.gp	Method	AAT/GAP
Start	19971	End	20540
GI	4879016	Score	869
Exons	19971..20540		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62078	Strand	-
Start	25341	End	25426
Name	OJ990519_31.9924.C5.o5.np	Method	AAT/NAP
Start	25341	End	25426
GI	6721561	Score	107
Exons	25341..25426		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o1.tm	Method	TBLASTX:Maize
Start	14606	End	14996
GI	none	Score	437
Exons	14606..14995, 14607..14996		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o3.tc	Method	TBLASTX:Cress
Start	14838	End	15008
GI	none	Score	188
Exons	14838..15008, 14849..14992		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o2.ts	Method	TBLASTX:Soybean
Start	14979	End	15982
GI	none	Score	41
Exons	14979..15026, 15041..15121, 15129..15233, 15140..15250, 15847..15966, 15848..15982		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o2.tm	Method	TBLASTX:Maize
Start	15074	End	16472
GI	none	Score	146
Exons	15074..15214, 15074..15250, 15102..15233, 15847..15978, 15848..15982, 15854..15988, 16232..16465, 16236..16472		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o1.tc	Method	TBLASTX:Cress
Start	15129	End	15984
GI	none	Score	79
Exons	15129..15233, 15837..15902, 15847..15984, 15848..15982		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o1.ts	Method	TBLASTX:Soybean
Start	16242	End	16472
GI	none	Score	295
Exons	16242..16472, 16250..16468		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o2.tc	Method	TBLASTX:Cress
Start	16278	End	16463
GI	none	Score	189
Exons	16278..16463		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o4.tm	Method	TBLASTX:Maize
Start	17000	End	17191
GI	none	Score	186
Exons	17000..17191, 17014..17139		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o3.tm	Method	TBLASTX:Maize
Start	17357	End	18074
GI	none	Score	66
Exons	17357..17434, 17599..17640, 17675..17845, 17681..17845, 17685..17849, 17694..17852, 17849..17953, 17923..17967, 17966..18052, 17966..18031, 17979..18032, 17980..18054, 18048..18074		

Seq. No.	30116	Seq. ID	OJ990519_31.9924.C5
Gene No.	62079	Strand	-
Start	26224	End	29585
Name	OJ990519_31.9924.C5.o7.gs	Method	GENSCAN
Start	26224	End	29585

GI none Score .82  
Exons 26224..26748, 26842..27026, 27067..27263, 27542..27676,  
29473..29585

Seq. No. 30116 Seq. ID OJ990519\_31.9924.C5  
Gene No. 62079 Strand -  
Start 26224 End 29585  
Name OJ990519\_31.9924.C5.o7.np Method AAT/NAP  
Start 26229 End 27853  
GI 5305335 Score 234  
Exons 26229..27853  
GI Descrip. (AF071081) proline-rich mucin homolog [Mycobacterium  
tuberculosis]

Seq. No. 30117 Seq. ID OJ990519\_31.9924.C6  
Gene No. 62080 Strand +  
Start 5778 End 10924  
Name OJ990519\_31.9924.C6.o2.np Method AAT/NAP  
Start 5778 End 10924  
GI 5042447 Score 656  
Exons 5778..5856, 6619..7647, 10727..10924  
GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No. 30117 Seq. ID OJ990519\_31.9924.C6  
Gene No. 62081 Strand +  
Start 16703 End 19297  
Name OJ990519\_31.9924.C6.o4.np Method AAT/NAP  
Start 16703 End 19297  
GI 6721516 Score 110  
Exons 16703..16748, 18452..18651, 18690..18735, 19242..19297  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 30117 Seq. ID OJ990519\_31.9924.C6  
Gene No. 62082 Strand -  
Start 1 End 3727  
Name OJ990519\_31.9924.C6.o1.np Method AAT/NAP  
Start 1 End 3727  
GI 5852181 Score 139  
Exons 1..45, 208..544, 3708..3727  
GI Descrip. (AL117265) zhb0011.1 [Oryza sativa]

Seq. No. 30117 Seq. ID OJ990519\_31.9924.C6  
Gene No. 62083 Strand -  
Start 8506 End 19297  
Name OJ990519\_31.9924.C6.o2.tw Method TBLASTX:Wheat  
Start 6995 End 7360  
GI none Score 276  
Exons 6995..7360, 7147..7185

Seq. No. 30117 Seq. ID OJ990519\_31.9924.C6  
Gene No. 62083 Strand -  
Start 8506 End 19297  
Name OJ990519\_31.9924.C6.o4.tm Method TBLASTX:Maize  
Start 6995 End 7330  
GI none Score 232  
Exons 6995..7330

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o2.gs	Method	GENSCAN
Start	8506	End	18161
GI	none	Score	.44
Exons	8506..9066, 9104..9143, 9154..9321, 11514..11985, 12630..12909, 12994..13118, 14019..14139, 14233..14528, 14904..15059, 16984..17326, 17746..18161		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o1.tm	Method	TBLASTX:Maize
Start	16273	End	16960
GI	none	Score	70
Exons	16273..16395, 16283..16951, 16298..16960, 16443..16958		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o3.np	Method	AAT/NAP
Start	16292	End	19297
GI	4416302	Score	2048
Exons	16292..18325, 19259..19297		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o2.ts	Method	TBLASTX:Soybean
Start	16310	End	16951
GI	none	Score	44
Exons	16310..16534, 16446..16526, 16568..16939, 16568..16951, 16575..16946		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o1.tc	Method	TBLASTX:Cress
Start	16313	End	16771
GI	none	Score	69
Exons	16313..16558, 16544..16678, 16682..16771		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o3.tw	Method	TBLASTX:Wheat
Start	16715	End	17152
GI	none	Score	94
Exons	16715..16972, 17003..17152		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o5.tm	Method	TBLASTX:Maize
Start	16993	End	17159

GI	none	Score	89
Exons	16993..17064, 16993..17154, 16997..17155, 16997..17158, 17010..17159		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o2.tm	Method	TBLASTX:Maize
Start	17201	End	17668
GI	none	Score	374
Exons	17201..17668, 17202..17666, 17552..17668		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o1.ts	Method	TBLASTX:Soybean
Start	17328	End	17940
GI	5509260	Score	264
Exons	17328..17672, 17328..17591, 17333..17671, 17662..17940, 17663..17830, 17680..17847		

GI Descrip. -

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o1.tw	Method	TBLASTX:Wheat
Start	17336	End	17796
GI	none	Score	62
Exons	17336..17512, 17342..17671, 17343..17672, 17558..17680, 17689..17715, 17722..17796		

Seq. No.	30117	Seq. ID	OJ990519_31.9924.C6
Gene No.	62083	Strand	-
Start	8506	End	19297
Name	OJ990519_31.9924.C6.o3.tm	Method	TBLASTX:Maize
Start	17671	End	17994
GI	none	Score	185
Exons	17671..17718, 17672..17935, 17707..17994		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62084	Strand	+
Start	256	End	5762
Name	OJ990519_31.9924.C7.o1.gp	Method	AAT/GAP
Start	256	End	608
GI	25792_1.R1084	Score	645
Exons	256..608		

GI Descrip. '4512233/dbj|AB014743.1|AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62084	Strand	+
Start	256	End	5762
Name	OJ990519_31.9924.C7.o1.gs	Method	GENSCAN
Start	423	End	5762
GI	none	Score	.69
Exons	423..529, 573..940, 988..1016, 1245..1396, 1526..1840, 1854..1876, 1897..3787, 4091..4838, 4968..5055, 5125..5762		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62084	Strand	+
Start	256	End	5762
Name	OJ990519_31.9924.C7.o1.np	Method	AAT/NAP
Start	1242	End	5759
GI	4680179	Score	5346
Exons	1242..2324, 2358..5759		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62085	Strand	+
Start	6378	End	10148
Name	OJ990519_31.9924.C7.o2.gs	Method	GENSCAN
Start	6378	End	9606
GI	none	Score	.8
Exons	6378..6751, 6905..6983, 7900..7995, 9097..9606		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62085	Strand	+
Start	6378	End	10148
Name	OJ990519_31.9924.C7.o2.gp	Method	AAT/GAP
Start	7827	End	8208
GI	uC-osflcyp033a04b1	Score	655
Exons	7827..8208		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62085	Strand	+
Start	6378	End	10148
Name	OJ990519_31.9924.C7.o3.np	Method	AAT/NAP
Start	9160	End	10148
GI	5042448	Score	91
Exons	9160..9540, 10128..10148		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62085	Strand	+
Start	6378	End	10148
Name	OJ990519_31.9924.C7.o3.gp	Method	AAT/GAP
Start	9463	End	9857
GI	2312718	Score	649
Exons	9463..9857		
GI Descrip.	4512233/dbj AB014743.1 AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62085	Strand	+
Start	6378	End	10148
Name	OJ990519_31.9924.C7.o4.gp	Method	AAT/GAP
Start	10034	End	10148
GI	25792_1.R1084	Score	215
Exons	10034..10148		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o7.tw  
 Start 1478  
 GI none  
 Exons 1478..1837, 1479..1838

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Wheat  
 End 1838  
 Score 276

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o7.tm  
 Start 1719  
 GI none  
 Exons 1719..2024, 1733..1849

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Maize  
 End 2024  
 Score 183

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o6.tm  
 Start 2349  
 GI none  
 Exons 2349..2702, 2435..2518, 2639..2704

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Maize  
 End 2704  
 Score 186

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o8.tw  
 Start 2384  
 GI none  
 Exons 2384..2593, 2385..2594, 2639..2752, 2640..2753

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Wheat  
 End 2753  
 Score 162

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o4.tw  
 Start 2918  
 GI none  
 Exons 2918..3346, 2922..2972, 3027..3404

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Wheat  
 End 3404  
 Score 52

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o5.tm  
 Start 2933  
 GI none  
 Exons 2933..3223, 2934..3221

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Maize  
 End 3223  
 Score 276

Seq. No. 30118  
 Gene No. 62086  
 Start 6461  
 Name OJ990519\_31.9924.C7.o3.tm  
 Start 3291  
 GI none  
 Exons 3291..3470, 3299..3418, 3477..3791, 3542..3670, 3698..3748

Seq. ID OJ990519\_31.9924.C7  
 Strand -  
 End 10148  
 Method TBLASTX:Maize  
 End 3791  
 Score 157

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o1.ts	Method	TBLASTX:Soybean
Start	3345	End	3740
GI	none	Score	53
Exons	3345..3377, 3347..3376, 3381..3740, 3382..3414, 3449..3739		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o5.tw	Method	TBLASTX:Wheat
Start	3453	End	3755
GI	none	Score	376
Exons	3453..3755, 3454..3534, 3455..3739		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o3.tw	Method	TBLASTX:Wheat
Start	3756	End	4178
GI	none	Score	581
Exons	3756..4178, 3785..4177		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o3.ts	Method	TBLASTX:Soybean
Start	3762	End	4007
GI	none	Score	203
Exons	3762..4007		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o2.tm	Method	TBLASTX:Maize
Start	3827	End	4190
GI	none	Score	475
Exons	3827..4177, 3828..4181, 3828..4190		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o2.tw	Method	TBLASTX:Wheat
Start	4181	End	4748
GI	none	Score	663
Exons	4181..4747, 4212..4748		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o2.ts	Method	TBLASTX:Soybean
Start	4541	End	4796
GI	none	Score	292
Exons	4541..4795, 4542..4796		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
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Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o4.tm	Method	TBLASTX:Maize
Start	4595	End	4886
GI	none	Score	374
Exons	4595..4882, 4596..4886		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7.
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o1.tw	Method	TBLASTX:Wheat
Start	4755	End	5381
GI	none	Score	688
Exons	4755..5381, 4811..5269, 5127..5378		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o1.tm	Method	TBLASTX:Maize
Start	4934	End	5534
GI	none	Score	228
Exons	4934..5089, 4935..5096, 5094..5534, 5096..5518		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o6.tw	Method	TBLASTX:Wheat
Start	5381	End	5714
GI	none	Score	320
Exons	5381..5650, 5382..5714, 5385..5672		

Seq. No.	30118	Seq. ID	OJ990519_31.9924.C7
Gene No.	62086	Strand	-
Start	6461	End	10148
Name	OJ990519_31.9924.C7.o2.np	Method	AAT/NAP
Start	6461	End	10148
GI	5852180	Score	505
Exons	6461..6907, 6959..7077, 8057..8109, 10108..10148		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	30119	Seq. ID	OJ990519_31.9924.C8
Gene No.	62087	Strand	+
Start	98	End	811
Name	OJ990519_31.9924.C8.o1.gs	Method	GENSCAN
Start	98	End	811
GI	none	Score	.55
Exons	98..140, 627..811		

Seq. No.	30119	Seq. ID	OJ990519_31.9924.C8
Gene No.	62088	Strand	-
Start	1	End	1340
Name	OJ990519_31.9924.C8.o1.np	Method	AAT/NAP
Start	1	End	1340
GI	5852181	Score	146
Exons	1..66, 1135..1340		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	30120	Seq. ID	OJ990519_31.9924.C9
Gene No.	62089	Strand	+
Start	1	End	837
Name	OJ990519_31.9924.C9.o1.np	Method	AAT/NAP
Start	1	End	837
GI	5257279	Score	111
Exons	1..34, 380..489, 804..837		
GI Descrip.	(AP000364) Similar to Transposon.MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	30120	Seq. ID	OJ990519_31.9924.C9
Gene No.	62089	Strand	+
Start	1	End	837
Name	OJ990519_31.9924.C9.o1.gs	Method	GENSCAN
Start	331	End	597
GI	none	Score	.96
Exons	331..374, 402..597		

Seq. No.	30121	Seq. ID	OJ990519_31.9924.C10
Gene No.	62090	Strand	-
Start	179	End	278
Name	OJ990519_31.9924.C10.o1.gs	Method	GENSCAN
Start	179	End	278
GI	none	Score	.93
Exons	179..278		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o1.ts	Method	TBLASTX:Soybean
Start	5098	End	9801
GI	none	Score	64
Exons	5098..5187, 8533..8682, 8539..8682, 8792..9016, 8884..9015, 9109..9324, 9111..9188, 9136..9285, 9237..9326, 9361..9423, 9448..9501, 9607..9801, 9609..9800		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o2.gs	Method	GENSCAN
Start	8037	End	9813
GI	none	Score	.88
Exons	8037..8106, 8537..8682, 8795..9013, 9112..9324, 9379..9498, 9610..9813		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o1.np	Method	AAT/NAP
Start	8469	End	9810
GI	6010777	Score	662
Exons	8469..8682, 8795..9013, 9112..9337, 9422..9498, 9610..9810		
GI Descrip.	(AF188832) annexin [Fragaria x ananassa]		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822

Name	OJ990519_31.9924.C11.o1.tc	Method	TBLASTX:Cress
Start	8536	End	9015
GI	none	Score	154
Exons	8536..8682, 8792..9010, 8884..9015		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o1.tm	Method	TBLASTX:Maize
Start	8536	End	9801
GI	none	Score	145
Exons	8536..8694, 8792..9016, 8794..9015, 9109..9324, 9436..9525, 9607..9801, 9609..9800		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o2.tc	Method	TBLASTX:Cress
Start	9103	End	9801
GI	none	Score	192
Exons	9103..9309, 9109..9324, 9111..9323, 9604..9801, 9621..9800		

Seq. No.	30122	Seq. ID	OJ990519_31.9924.C11
Gene No.	62091	Strand	+
Start	8037	End	9822
Name	OJ990519_31.9924.C11.o1.tw	Method	TBLASTX:Wheat
Start	9607	End	9822
GI	none	Score	181
Exons	9607..9822, 9636..9761		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62092	Strand	+
Start	598	End	3010
Name	OJ990619_35.9927.C2.o1.gs	Method	GENSCAN
Start	598	End	3010
GI	none	Score	.65
Exons	598..710, 1152..1284, 1635..1739, 2564..2719, 2728..2851, 2859..3010		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62093	Strand	+
Start	6059	End	9276
Name	OJ990619_35.9927.C2.o2.np	Method	AAT/NAP
Start	6059	End	9276
GI	4539658	Score	226
Exons	6059..6185, 6227..6405, 9222..9276		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o1.np	Method	AAT/NAP
Start	4235	End	9794
GI	4680179	Score	1991
Exons	4235..5932, 6918..6987, 9748..9794		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o2.gs	Method	GENSCAN
Start	4342	End	5939
GI	none	Score	.84
Exons	4342..5709, 5733..5939		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o1.gp	Method	AAT/GAP
Start	5931	End	6180
GI	LIB3475-004-P1-K2-A5	Score	424
Exons	5931..6180		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o3.np	Method	AAT/NAP
Start	7436	End	9461
GI	5002342	Score	875
Exons	7436..7914, 8236..8401, 8983..9174, 9276..9461		
GI Descrip.	(AF149277) peroxidase 1 precursor [Phaseolus vulgaris]		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o3.gs	Method	GENSCAN
Start	7493	End	9497
GI	none	Score	.97
Exons	7493..7914, 8236..8401, 8983..9174, 9276..9497		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o2.gp	Method	AAT/GAP
Start	8257	End	9186
GI	3061227	Score	568
Exons	8257..8401, 8983..9186		
GI Descrip.	797268 1.0e-22 (L07554) peroxidase [Linum usitatissimum]		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62094	Strand	-
Start	4342	End	9794
Name	OJ990619_35.9927.C2.o3.gp	Method	AAT/GAP
Start	9135	End	9590
GI	LIB3479-008-Q6-K1-A6	Score	530
Exons	9135..9174, 9276..9590		
GI Descrip.	'1279654/emb CAA66037  7.0e-24 (X97351) peroxidase [Populus balsamifera subsp. trichocarpa]'		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-

Start 11075  
 Name OJ990619\_35.9927.C2.o4.tw  
 Start 4279  
 GI none  
 Exons 4279..4611, 4300..4572

End 12824  
 Method TBLASTX:Wheat  
 End 4611  
 Score 137

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o1.tm  
 Start 4462  
 GI none  
 Exons 4462..4557, 4462..4899, 4472..4681, 4630..4779, 4757..4885, 4816..4899, 4897..5055, 4908..4970, 4913..5050

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Maize  
 End 5055  
 Score 64

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o1.tw  
 Start 4612  
 GI none  
 Exons 4612..5238, 4736..5182

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Wheat  
 End 5238  
 Score 233

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o2.tm  
 Start 5177  
 GI none  
 Exons 5177..5437, 5179..5436

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Maize  
 End 5437  
 Score 240

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o2.ts  
 Start 5197  
 GI none  
 Exons 5197..5445, 5198..5452

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Soybean  
 End 5452  
 Score 188

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o2.tc  
 Start 5221  
 GI none  
 Exons 5221..5364, 5237..5362, 5365..5538, 5419..5517

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Cress  
 End 5538  
 Score 95

Seq. No. 30123  
 Gene No. 62095  
 Start 11075  
 Name OJ990619\_35.9927.C2.o2.tw  
 Start 5245  
 GI none  
 Exons 5245..5676, 5249..5617

Seq. ID OJ990619\_35.9927.C2  
 Strand -  
 End 12824  
 Method TBLASTX:Wheat  
 End 5676  
 Score 267

Seq. No. 30123  
 Gene No. 62095

Seq. ID OJ990619\_35.9927.C2  
 Strand -

Start 11075  
Name OJ990619\_35.9927.C2.o6.tw  
Start 5811  
GI none  
Exons 5811..5927, 5826..5927

End 12824  
Method TBLASTX:Wheat  
End 5927  
Score 74

Seq. No. 30123  
Gene No. 62095  
Start 11075  
Name OJ990619\_35.9927.C2.o6.tm  
Start 5961  
GI none  
Exons 5961..6083, 5961..6083, 5962..6090, 5975..6091, 6063..6200, 6076..6201, 6079..6204, 6089..6205, 6449..6556, 6462..6557, 6652..6765, 6653..6715, 6657..6782, 6663..6779, 6667..6783

Seq. ID OJ990619\_35.9927.C2  
Strand -  
End 12824  
Method TBLASTX:Maize  
End 6783  
Score 110

Seq. No. 30123  
Gene No. 62095  
Start 11075  
Name OJ990619\_35.9927.C2.o5.tm  
Start 7484  
GI none  
Exons 7484..7642, 7493..7582, 7521..7643, 11078..11224, 11079..11225

Seq. ID OJ990619\_35.9927.C2  
Strand -  
End 12824  
Method TBLASTX:Maize  
End 11225  
Score 108

Seq. No. 30123  
Gene No. 62095  
Start 11075  
Name OJ990619\_35.9927.C2.o1.tc  
Start 7496  
GI none  
Exons 7496..7642, 7646..7777, 7757..7918, 7779..7916, 8261..8401, 8944..9225, 8990..9175, 9279..9422, 9280..9387, 11078..11233, 11243..11365, 11336..11497, 11829..11969, 11833..11967, 12101..12247, 12120..12248, 12245..12289, 12252..12284, 12518..12661

Seq. ID OJ990619\_35.9927.C2  
Strand -  
End 12824  
Method TBLASTX:Cress  
End 12661  
Score 93

Seq. No. 30123  
Gene No. 62095  
Start 11075  
Name OJ990619\_35.9927.C2.o1.ts  
Start 7502  
GI none  
Exons 7502..7777, 7521..7754, 7769..7918, 7779..7916, 8234..8467, 8992..9207, 8993..9175, 9276..9419, 9280..9420, 11078..11224, 11237..11365, 11360..11497, 11790..11978, 11803..11967, 12101..12247, 12123..12248, 12251..12289, 12518..12706

Seq. ID OJ990619\_35.9927.C2  
Strand -  
End 12824  
Method TBLASTX:Soybean  
End 12706  
Score 156

Seq. No. 30123  
Gene No. 62095  
Start 11075  
Name OJ990619\_35.9927.C2.o3.tw  
Start 7521  
GI none  
Exons 7521..7538, 7544..7642, 7545..7643, 7557..7652, 7646..7783, 7647..7757, 7763..7789, 7766..7891, 7779..7889, 7823..7891, 11120..11230, 11208..11339, 11219..11365, 11330..11470

Seq. ID OJ990619\_35.9927.C2  
Strand -  
End 12824  
Method TBLASTX:Wheat  
End 11470  
Score 38

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o4.tm	Method	TBLASTX:Maize
Start	7644	End	11969
GI	none	Score	128
Exons	7644..7760, 7647..7766, 7652..7783, 7778..7918, 7779..7916, 8234..8326, 8333..8401, 11243..11365, 11330..11497, 11370..11516, 11802..11894, 11901..11969		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o5.tw	Method	TBLASTX:Wheat
Start	8989	End	12658
GI	none	Score	63
Exons	8989..9156, 8990..9043, 9107..9175, 9276..9401, 9280..9387, 12107..12253, 12108..12200, 12518..12658		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o3.tm	Method	TBLASTX:Maize
Start	9010	End	12655
GI	none	Score	54
Exons	9010..9066, 9011..9046, 9064..9183, 9077..9175, 9118..9183, 9267..9356, 9276..9419, 9280..9420, 12128..12175, 12129..12173, 12182..12247, 12189..12245, 12245..12289, 12518..12655		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o4.gp	Method	AAT/GAP
Start	10751	End	12803
GI	577_1.R1084	Score	2588
Exons	10751..11493, 11804..11969, 12101..12283, 12516..12803		
GI Descrip.	'1853975/dbj BAA03373  0.0e+00 (D14482) putative peroxidase [Oryza sativa]'		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o4.gs	Method	GENSCAN
Start	11075	End	12824
GI	none	Score	.95
Exons	11075..11493, 11804..11969, 12101..12283, 12521..12616, 12750..12824		

Seq. No.	30123	Seq. ID	OJ990619_35.9927.C2
Gene No.	62095	Strand	-
Start	11075	End	12824
Name	OJ990619_35.9927.C2.o4.np	Method	AAT/NAP
Start	11078	End	12754
GI	1272505	Score	1565
Exons	11078..11493, 11804..11969, 12101..12283, 12515..12754		
GI Descrip.	(D49551) peroxidase [Oryza sativa]		

Seq. No. 30124  
Gene No. 62096  
Start 719  
Name OJ990619\_35.9927.C4.o1.gs  
Start 719  
GI none  
Exons 719..919

Seq. ID OJ990619\_35.9927.C4  
Strand -  
End 919  
Method GENSCAN  
End 919  
Score .96

Seq. No. 30125  
Gene No. 62097  
Start 26  
Name OJ990619\_35.9927.C5.o1.gs  
Start 26  
GI none  
Exons 26..67, 584..642, 766..814, 1333..1416, 2002..2127, 2841..2914, 3416..3518

Seq. ID OJ990619\_35.9927.C5  
Strand +  
End 3518  
Method GENSCAN  
End 3518  
Score .93

Seq. No. 30125  
Gene No. 62098  
Start 9851  
Name OJ990619\_35.9927.C5.o1.gp  
Start 9851  
GI 598 2.R1084  
Exons 9851..9883, 10086..10263, 10355..10544, 12053..12119, 12395..12623  
GI Descrip. '485518|pir||S33633 6.0e-70 ubiquitin / ribosomal protein CEP52 - rice >gi\_303857\_dbj\_BAA02154\_ (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]'

Seq. ID OJ990619\_35.9927.C5  
Strand +  
End 12623  
Method AAT/GAP  
End 12623  
Score 1203

Seq. No. 30125  
Gene No. 62098  
Start 9851  
Name OJ990619\_35.9927.C5.o2.np  
Start 10161  
GI 485518  
Exons 10161..10263, 10355..10544, 12053..12119, 12395..12421  
GI Descrip. ubiquitin / ribosomal protein CEP52 - rice  
gi|303857|dbj|BAA02154.1| (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]

Seq. ID OJ990619\_35.9927.C5  
Strand +  
End 12623  
Method AAT/NAP  
End 12421  
Score 577

Seq. No. 30125  
Gene No. 62098  
Start 9851  
Name OJ990619\_35.9927.C5.o4.gs  
Start 10161  
GI none  
Exons 10161..10263, 10355..10544, 10826..10951, 12053..12119, 12395..12424

Seq. ID OJ990619\_35.9927.C5  
Strand +  
End 12623  
Method GENSCAN  
End 12424  
Score .97

Seq. No. 30125  
Gene No. 62099  
Start 30181  
Name OJ990619\_35.9927.C5.o10.gs  
Start 30181  
GI none  
Exons 30181..30518, 31008..31238, 31500..31878

Seq. ID OJ990619\_35.9927.C5  
Strand +  
End 31878  
Method GENSCAN  
End 31878  
Score .47



Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62100	Strand	+
Start	35984	End	36363
Name	OJ990619_35.9927.C5.o5.gp	Method	AAT/GAP
Start	35984	End	36363
GI	none	Score	661
Exons	35984..36363		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62101	Strand	+
Start	47453	End	49385
Name	OJ990619_35.9927.C5.o8.np	Method	AAT/NAP
Start	47453	End	48222
GI	6273385	Score	662
Exons	47453..47968, 47999..48222		
GI Descrip.	(AF195654) SCUTL2 [Vitis vinifera]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62101	Strand	+
Start	47453	End	49385
Name	OJ990619_35.9927.C5.o9.np	Method	AAT/NAP
Start	47819	End	49385
GI	2146740	Score	179
Exons	47819..47925, 49092..49385		
GI Descrip.	inner mitochondrial membrane protein - Arabidopsis thaliana gi 603056 (U18126) inner mitochondrial membrane protein [Arabidopsis thaliana] gi 6648153 gb AAF21153.1 AC010926_5 (AC010926) inner mitochondrial membrane protein [Arabidopsis thaliana]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62102	Strand	+
Start	63979	End	72303
Name	OJ990619_35.9927.C5.o11.np	Method	AAT/NAP
Start	63361	End	67590
GI	4468993	Score	1388
Exons	63361..63428, 64027..64211, 65988..66146, 66222..66312, 66940..67590		
GI Descrip.	(AL035605) putative protein [Arabidopsis thaliana]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62102	Strand	+
Start	63979	End	72303
Name	OJ990619_35.9927.C5.o17.gs	Method	GENSCAN
Start	63979	End	72303
GI	none	Score	.4
Exons	63979..64317, 64941..65165, 65375..65518, 67270..67557, 68631..69034, 69969..70833, 72103..72303		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62102	Strand	+
Start	63979	End	72303
Name	OJ990619_35.9927.C5.o12.np	Method	AAT/NAP
Start	68665	End	70860
GI	3935185	Score	623
Exons	68665..69029, 69931..70860		
GI Descrip.	(AC004557) F17L21.28 [Arabidopsis thaliana]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62103	Strand	+
Start	82261	End	87471
Name	OJ990619_35.9927.C5.o13.np	Method	AAT/NAP
Start	82261	End	87471
GI	2827699	Score	1108
Exons	82261..82328, 83689..85012, 86784..86839, 87445..87471		
GI Descrip.	(AL021684) predicted protein [Arabidopsis thaliana]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62103	Strand	+
Start	82261	End	87471
Name	OJ990619_35.9927.C5.o8.gp	Method	AAT/GAP
Start	83238	End	83634
GI	none	Score	750
Exons	83238..83634		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62104	Strand	+
Start	88702	End	89121
Name	OJ990619_35.9927.C5.o9.gp	Method	AAT/GAP
Start	88702	End	89121
GI	uC-osflm202074d11a1	Score	427
Exons	88702..88840, 88926..89121		
GI Descrip.	'6041855/gb AAF02164.1 AC009853_24.3.0e-22 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62105	Strand	-
Start	6339	End	7526
Name	OJ990619_35.9927.C5.o2.gs	Method	GENSCAN
Start	6339	End	7526
GI	none	Score	.83
Exons	6339..6932, 7030..7221, 7308..7526		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62105	Strand	-
Start	6339	End	7526
Name	OJ990619_35.9927.C5.o1.np	Method	AAT/NAP
Start	6342	End	7448
GI	1730490	Score	777
Exons	6342..6932, 7030..7221, 7308..7448		
GI Descrip.	PEROXIDASE		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62106	Strand	-
Start	8956	End	9699
Name	OJ990619_35.9927.C5.o3.gs	Method	GENSCAN
Start	8956	End	9699
GI	none	Score	.64
Exons	8956..9042, 9133..9261, 9299..9456, 9693..9699		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62107	Strand	-
Start	13569	End	14975
Name	OJ990619_35.9927.C5.o5.gs	Method	GENSCAN

Start	13569	End	14975
GI	none	Score	.67
Exons	13569..13715, 14043..14159, 14270..14384, 14477..14608, 14629..14975		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62107	Strand	-
Start	13569	End	14975
Name	OJ990619_35.9927.C5.o2.gp	Method	AAT/GAP
Start	14270	End	14724
GI	LIB3434-013-P1-K1-C12	Score	666
Exons	14270..14384, 14477..14724		
GI Descrip.	'2058496 5.0e-28 (U76028) hemoglobin 2 [Oryza sativa] >gi_2058502 (U76031) hemoglobin 2 [Oryza sativa]'		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62108	Strand	-
Start	17268	End	18108
Name	OJ990619_35.9927.C5.o6.gs	Method	GENSCAN
Start	17268	End	18108
GI	none	Score	.87
Exons	17268..17411, 17500..17616, 17710..17824, 17975..18108		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62109	Strand	-
Start	20988	End	21923
Name	OJ990619_35.9927.C5.o3.gp	Method	AAT/GAP
Start	20755	End	21923
GI	1029 2.R1084	Score	1496
Exons	20755..21128, 21244..21360, 21456..21570, 21687..21923		
GI Descrip.	'2058498 2.0e-89 (U76029) hemoglobin 1 [Oryza sativa] >gi_2058500 (U76030) hemoglobin 1 [Oryza sativa]'		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62109	Strand	-
Start	20988	End	21923
Name	OJ990619_35.9927.C5.o7.gs	Method	GENSCAN
Start	20988	End	21814
GI	none	Score	.99
Exons	20988..21128, 21244..21360, 21456..21570, 21687..21814		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62109	Strand	-
Start	20988	End	21923
Name	OJ990619_35.9927.C5.o3.np	Method	AAT/NAP
Start	20991	End	21814
GI	2058498	Score	744
Exons	20991..21128, 21244..21360, 21456..21570, 21687..21814		
GI Descrip.	(U76029) hemoglobin 1 [Oryza sativa] gi 2058500 (U76030) hemoglobin 1 [Oryza sativa]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62110	Strand	-
Start	22762	End	27153
Name	OJ990619_35.9927.C5.o4.np	Method	AAT/NAP
Start	22762	End	27153
GI	3152613	Score	501

Exons 22762..23214, 23477..23566, 23664..23720, 23800..23899,  
23975..24082, 24113..24366, 24486..24622, 27126..27153  
GI Descrip. (AC004482) hypothetical protein [Arabidopsis thaliana]

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62110	Strand	-
Start	22762	End	27153
Name	OJ990619_35.9927.C5.o5.np	Method	AAT/NAP
Start	22762	End	26532
GI	3152613	Score	497
Exons	22762..23214, 23477..23566, 23664..23720, 23800..23899, 23975..24082, 24113..24366, 24486..24605, 26470..26532		
GI Descrip.	(AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62110	Strand	-
Start	22762	End	27153
Name	OJ990619_35.9927.C5.o4.gp	Method	AAT/GAP
Start	24913	End	25429
GI	none	Score	1026
Exons	24913..25429		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62111	Strand	-
Start	32492	End	35225
Name	OJ990619_35.9927.C5.o11.gs	Method	GENSCAN
Start	32492	End	35225
GI	none	Score	.68
Exons	32492..32942, 33223..33418, 33647..33880, 33973..34053, 34149..34223, 34958..35225		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62111	Strand	-
Start	32492	End	35225
Name	OJ990619_35.9927.C5.o6.np	Method	AAT/NAP
Start	32765	End	33839
GI	6539555	Score	1027
Exons	32765..33076, 33159..33839		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi 6539592 dbj BAA88208.1  (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62112	Strand	-
Start	36304	End	40641
Name	OJ990619_35.9927.C5.o12.gs	Method	GENSCAN
Start	36304	End	40641
GI	none	Score	.7
Exons	36304..36446, 36451..36498, 36590..36714, 36779..37327, 38039..38216, 38280..38519, 39130..39406, 39538..39837, 39880..39936, 40561..40641		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62112	Strand	-
Start	36304	End	40641
Name	OJ990619_35.9927.C5.o7.np	Method	AAT/NAP
Start	36552	End	39768

GI 4678205 Score 1597  
 Exons 36552..36714, 36779..37327, 38039..38213, 38268..38519,  
 39130..39406, 39643..39768  
 GI Descrip. (AC007134) hypothetical protein [Arabidopsis thaliana]

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62112 Strand -  
 Start 36304 End 40641  
 Name OJ990619\_35.9927.C5.o6.gp Method AAT/GAP  
 Start 38290 End 39383  
 GI uC-osrocyp006a05b1 Score 920  
 Exons 38290..38519, 39130..39383  
 GI Descrip. '4678205/gb|AAD26951.1|AC007134\_9 1.0e-59 (AC007134)  
 hypothetical protein [Arabidopsis thaliana]'

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62113 Strand -  
 Start 51627 End 54104  
 Name OJ990619\_35.9927.C5.o7.gp Method AAT/GAP  
 Start 51627 End 52020  
 GI LIB3433-006-Q6-K6-G3 Score 670  
 Exons 51627..52020  
 GI Descrip. '3152605 7.0e-20 (AC004482) hypothetical protein [Arabidopsis  
 thaliana]'

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62113 Strand -  
 Start 51627 End 54104  
 Name OJ990619\_35.9927.C5.o15.gs Method GENSCAN  
 Start 51705 End 54104  
 GI none Score .87  
 Exons 51705..52217, 52322..52706, 52932..53080, 53157..53238,  
 53253..53358, 53993..54104

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62113 Strand -  
 Start 51627 End 54104  
 Name OJ990619\_35.9927.C5.o10.np Method AAT/NAP  
 Start 51732 End 52861  
 GI 3152605 Score 498  
 Exons 51732..52118, 52251..52861  
 GI Descrip. (AC004482) hypothetical protein [Arabidopsis thaliana]

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62114 Strand -  
 Start 58041 End 62547  
 Name OJ990619\_35.9927.C5.o16.gs Method GENSCAN  
 Start 58041 End 62547  
 GI none Score .66  
 Exons 58041..58174, 58296..58424, 58632..58728, 59214..59233,  
 59387..59481, 59886..59973, 62505..62547

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
 Gene No. 62115 Strand -  
 Start 73176 End 78561  
 Name OJ990619\_35.9927.C5.o18.gs Method GENSCAN  
 Start 73176 End 78561

GI none Score .71  
Exons 73176..73313, 73415..73562, 74168..74267, 74343..74399,  
78189..78561

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62116 Strand -  
Start 86170 End 91876  
Name OJ990619\_35.9927.C5.o21.gs Method GENSCAN  
Start 86170 End 91876  
GI none Score .44  
Exons 86170..86239, 86386..86790, 87614..87777, 88385..88470,  
89226..89361, 89474..89636, 90358..90447, 90510..90579,  
91381..91408, 91451..91876

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62116 Strand -  
Start 86170 End 91876  
Name OJ990619\_35.9927.C5.o10.gp Method AAT/GAP  
Start 89058 End 89606  
GI LIB3432-014-P1-K1-C4 Score 822  
Exons 89058..89361, 89474..89606  
GI Descrip. '3445204/gb|AAC32434.1| 2.0e-45 (AC004786) putative GTP-binding  
protein [Arabidopsis thaliana]'

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62116 Strand -  
Start 86170 End 91876  
Name OJ990619\_35.9927.C5.o14.np Method AAT/NAP  
Start 89155 End 91597  
GI 6226480 Score 827  
Exons 89155..89361, 89474..89636, 90510..90579, 91381..91597  
GI Descrip. HYPOTHETIC GTP-BINDING PROTEIN T20K9.8 gi|3445204|gb|AAC32434.1|  
(AC004786) putative nucleotide-binding protein [Arabidopsis  
thaliana]

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62116 Strand -  
Start 86170 End 91876  
Name OJ990619\_35.9927.C5.o11.gp Method AAT/GAP  
Start 90086 End 90618  
GI uC-osf1M202123a09b1 Score 1017  
Exons 90086..90618  
GI Descrip. '3445196/gb|AC004786.1|ATAC004786 6.0e-10 Arabidopsis thaliana  
chromosome II BAC T20K9 genomic sequence, complete sequence'

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62117 Strand -  
Start 93409 End 96366  
Name OJ990619\_35.9927.C5.o1.tc Method TBLASTX:Cress  
Start 6337 End 7445  
GI none Score 110  
Exons 6337..6495, 6348..6494, 6498..6626, 6624..6818, 6652..6816,  
6864..6941, 6865..6969, 7030..7227, 7037..7228, 7308..7445,  
7309..7416

Seq. No. 30125 Seq. ID OJ990619\_35.9927.C5  
Gene No. 62117 Strand -

Start	93409	End	96366
Name	OJ990619_35.9927.C5.o3.ts	Method	TBLASTX:Soybean
Start	6345	End	7506
GI	none	Score	108
Exons	6345..6488, 6349..6489, 6504..6617, 6624..6815, 6655..6801, 6874..6930, 6876..6929, 7039..7227, 7040..7228, 7311..7445, 7312..7506		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o4.tm	Method	TBLASTX:Maize
Start	6348	End	7454
GI	none	Score	88
Exons	6348..6497, 6349..6489, 6492..6608, 6636..6818, 6652..6801, 6858..6917, 6864..6929, 7027..7227, 7028..7228, 7309..7440, 7311..7454		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o6.tw	Method	TBLASTX:Wheat
Start	6364	End	6746
GI	none	Score	125
Exons	6364..6444, 6390..6518, 6391..6504, 6489..6629, 6490..6534, 6569..6610, 6642..6746, 6649..6744		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o7.tw	Method	TBLASTX:Wheat
Start	7036	End	7433
GI	none	Score	79
Exons	7036..7134, 7049..7129, 7153..7227, 7309..7422, 7311..7433		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o4.tc	Method	TBLASTX:Cress
Start	10154	End	12124
GI	none	Score	179
Exons	10154..10276, 10155..10265, 10350..10547, 10354..10545, 12050..12124, 12051..12122		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o7.tm	Method	TBLASTX:Maize
Start	10154	End	12130
GI	none	Score	173
Exons	10154..10261, 10154..10276, 10158..10265, 10350..10547, 10354..10545, 12004..12117, 12049..12123, 12050..12130, 12051..12122		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366

Name	OJ990619_35.9927.C5.o1.tw	Method	TBLASTX:Wheat
Start	10157	End	10547
GI	none	Score	175
Exons	10157..10276, 10158..10265, 10160..10267, 10160..10276, 10161..10265, 10161..10265, 10161..10214, 10163..10270, 10163..10267, 10219..10263, 10350..10475, 10350..10475, 10350..10481, 10350..10547, 10350..10481, 10354..10482, 10354..10545, 10354..10482		
Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o5.ts	Method	TBLASTX:Soybean
Start	10158	End	12124
GI	none	Score	175
Exons	10158..10265, 10160..10276, 10350..10547, 10354..10545, 12050..12124, 12051..12122		
Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o6.tm	Method	TBLASTX:Maize
Start	13578	End	21748
GI	none	Score	128
Exons	13578..13718, 13579..13716, 13587..13757, 13613..13756, 14040..14153, 14040..14165, 14041..14160, 14270..14356, 14270..14353, 14336..14383, 14363..14386, 14476..14538, 14476..14538, 17260..17412, 17274..17414, 17275..17412, 17283..17420, 17494..17613, 17494..17616, 17498..17617, 17498..17617, 17696..17791, 17701..17796, 17710..17796, 17776..17823, 17803..17835, 17974..18036, 17974..18036, 17975..18037, 20980..21129, 20992..21129, 20997..21167, 20997..21131, 21241..21366, 21242..21361, 21448..21540, 21456..21542, 21522..21596, 21537..21572, 21686..21748, 21686..21748		
Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o6.ts	Method	TBLASTX:Soybean
Start	13584	End	21775
GI	none	Score	89
Exons	13584..13664, 13585..13665, 13671..13718, 14040..14165, 14270..14386, 14271..14390, 14476..14565, 14477..14560, 17268..17360, 17268..17360, 17281..17397, 17362..17412, 17367..17414, 17494..17616, 17498..17617, 17696..17830, 17701..17835, 17974..18063, 20965..21114, 20997..21095, 21084..21131, 21188..21361, 21241..21366, 21448..21582, 21456..21572, 21686..21775, 21689..21775		
Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o5.tc	Method	TBLASTX:Cress
Start	13588	End	21781
GI	none	Score	72
Exons	13588..13665, 13590..13664, 13666..13716, 13671..13733,		



14040..14156, 14261..14401, 14270..14386, 14476..14583,  
 14495..14590, 17284..17397, 17286..17360, 17367..17414,  
 17494..17613, 17498..17533, 17698..17823, 17701..17832,  
 17974..18081, 17975..18076, 21001..21114, 21003..21095,  
 21084..21131, 21241..21357, 21242..21355, 21456..21581,  
 21457..21573, 21686..21781

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o15.ts	Method	TBLASTX:Soybean
Start	22765	End	23152
GI	none	Score	113
Exons	22765..22821, 22867..22959, 23014..23151, 23015..23152		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o12.tm	Method	TBLASTX:Maize
Start	22789	End	23557
GI	none	Score	188
Exons	22789..22959, 23014..23190, 23015..23170, 23029..23172, 23164..23217, 23183..23218, 23477..23557, 23478..23549, 23488..23550		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o14.tm	Method	TBLASTX:Maize
Start	23640	End	24037
GI	none	Score	77
Exons	23640..23720, 23647..23721, 23800..23895, 23800..23898, 23801..23902, 23970..24035, 23975..24037, 23977..24036		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o10.ts	Method	TBLASTX:Soybean
Start	24702	End	25166
GI	none	Score	68
Exons	24702..24950, 24799..24885, 25047..25166		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o13.tm	Method	TBLASTX:Maize
Start	24806	End	25141
GI	none	Score	123
Exons	24806..24898, 24807..24938, 24810..24944, 25030..25140, 25047..25139, 25049..25141		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o5.tw	Method	TBLASTX:Wheat
Start	32708	End	32989
GI	none	Score	125

Exons 32708..32989, 32769..32987

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o16.tm	Method	TBLASTX:Maize
Start	36543	End	36850
GI	none	Score	41
Exons	36543..36566, 36561..36608, 36563..36607, 36590..36715, 36612..36713, 36616..36768, 36616..36714, 36772..36849, 36776..36850, 36778..36849		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o1.tm	Method	TBLASTX:Maize
Start	36850	End	38386
GI	none	Score	85
Exons	36850..37326, 36864..36953, 36926..37327, 36949..37167, 36992..37327, 36996..37343, 38030..38386, 38041..38385		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o2.ts	Method	TBLASTX:Soybean
Start	36885	End	38518
GI	none	Score	45
Exons	36885..37127, 36886..37251, 36887..36922, 36894..37124, 36967..37167, 36992..37240, 37243..37326, 37250..37327, 37256..37327, 38030..38518, 38041..38517, 38435..38518		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o13.ts	Method	TBLASTX:Soybean
Start	44540	End	44798
GI	none	Score	207
Exons	44540..44671, 44556..44798		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o10.tm	Method	TBLASTX:Maize
Start	45205	End	45479
GI	none	Score	178
Exons	45205..45324, 45206..45325, 45207..45326, 45327..45479, 45329..45478		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o9.ts	Method	TBLASTX:Soybean
Start	45378	End	46076
GI	none	Score	88
Exons	45378..45512, 45557..45727, 45558..45728, 45714..45818, 45900..46076		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o12.tc	Method	TBLASTX:Cress
Start	45465	End	46028
GI	none	Score	56
Exons	45465..45512, 45555..45722, 45714..45818, 45918..46028		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o17.tm	Method	TBLASTX:Maize
Start	45557	End	46049
GI	none	Score	152
Exons	45557..45709, 45558..45722, 45759..45815, 45903..46049		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o3.tc	Method	TBLASTX:Cress
Start	47505	End	48213
GI	none	Score	82
Exons	47505..47603, 47506..47604, 47592..47768, 47593..47739, 47736..47876, 47737..47877, 47899..47973, 48007..48177, 48181..48213		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o4.ts	Method	TBLASTX:Soybean
Start	47515	End	48213
GI	none	Score	204
Exons	47515..47742, 47517..47759, 47757..47876, 47758..47877, 47899..47958, 47910..47957, 48006..48104, 48007..48183, 48187..48213		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o11.tm	Method	TBLASTX:Maize
Start	47527	End	48210
GI	none	Score	101
Exons	47527..47652, 47583..47783, 47656..47700, 47704..47751, 47755..47889, 47826..47864, 47890..47958, 47980..48210		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o4.tw	Method	TBLASTX:Wheat
Start	47542	End	47964
GI	none	Score	42
Exons	47542..47562, 47592..47783, 47647..47901, 47914..47964		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o3.tw	Method	TBLASTX:Wheat

Start 47983  
 GI none  
 Exons 47983..48216, 47988..48104

End 48216  
 Score 274

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o8.tc  
 Start 51789  
 GI none  
 Exons 51789..51992, 51789..51992

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Cress  
 End 51992  
 Score 114

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o2.tw  
 Start 51792  
 GI none  
 Exons 51792..52058, 51804..52019

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Wheat  
 End 52058  
 Score 195

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o9.tm  
 Start 51792  
 GI none  
 Exons 51792..52091, 51801..52019

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Maize  
 End 52091  
 Score 246

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o11.ts  
 Start 51928  
 GI none  
 Exons 51928..52062, 51930..52091

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Soybean  
 End 52091  
 Score 130

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o18.tm  
 Start 64079  
 GI none  
 Exons 64079..64123, 64089..64211, 65989..66057

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Maize  
 End 66057  
 Score 218

Seq. No. 30125  
 Gene No. 62117  
 Start 93409  
 Name OJ990619\_35.9927.C5.o1.ts  
 Start 64090  
 GI none  
 Exons 64090..64218, 64095..64211, 66025..66174, 66072..66152, 66234..66275, 66901..67593, 65979..66038, 65989..66036, 66139..66246, 66226..66273, 66939..67589

Seq. ID OJ990619\_35.9927.C5  
 Strand -  
 End 96366  
 Method TBLASTX:Soybean  
 End 67593  
 Score 197

Seq. No. 30125  
 Gene No. 62117

Seq. ID OJ990619\_35.9927.C5  
 Strand -

Start	93409	End	96366
Name	OJ990619_35.9927.C5.o11.tc	Method	TBLASTX:Cress
Start	64093	End	67158
GI	none	Score	148
Exons	64093..64218, 66994..67158, 66999..67157		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o8.tm	Method	TBLASTX:Maize
Start	66058	End	67187
GI	none	Score	381
Exons	66058..66297, 66066..66320, 66071..66310, 66181..66327, 66931..67185, 66936..67184, 66940..67185, 66942..67187		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o2.tc	Method	TBLASTX:Cress
Start	67158	End	67609
GI	none	Score	673
Exons	67158..67586, 67159..67596, 67244..67609		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o2.tm	Method	TBLASTX:Maize
Start	67206	End	67747
GI	none	Score	338
Exons	67206..67595, 67206..67610, 67207..67599, 67247..67618, 67613..67633, 67724..67747		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o20.tm	Method	TBLASTX:Maize
Start	68757	End	69028
GI	none	Score	97
Exons	68757..68861, 68812..68868, 68867..69028, 68868..69020		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o10.tc	Method	TBLASTX:Cress
Start	70485	End	70695
GI	none	Score	216
Exons	70485..70694, 70486..70695		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o8.ts	Method	TBLASTX:Soybean
Start	74656	End	91645
GI	none	Score	59
Exons	74656..74748, 74740..74790, 91370..91504, 91376..91534, 91380..91535, 91508..91594, 91509..91583, 91616..91645		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o8.tw	Method	TBLASTX:Wheat
Start	83399	End	83737
GI	none	Score	63
Exons	83399..83446, 83400..83510, 83402..83443, 83465..83533, 83466..83543, 83499..83540, 83539..83577, 83549..83575, 83652..83714, 83653..83736, 83656..83736, 83657..83737		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o15.tm	Method	TBLASTX:Maize
Start	83484	End	83826
GI	none	Score	78
Exons	83484..83552, 83496..83552, 83551..83577, 83653..83826, 83653..83826		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o16.ts	Method	TBLASTX:Soybean
Start	83689	End	83961
GI	none	Score	78
Exons	83689..83739, 83782..83820, 83850..83960, 83851..83961		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o6.tc	Method	TBLASTX:Cress
Start	83689	End	84027
GI	none	Score	79
Exons	83689..83739, 83851..84027, 83853..84026		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o5.tm	Method	TBLASTX:Maize
Start	83833	End	84174
GI	none	Score	483
Exons	83833..84042, 83850..84167, 83851..84171, 84106..84174		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o7.ts	Method	TBLASTX:Soybean
Start	83967	End	84483
GI	none	Score	176
Exons	83967..84116, 83971..84132, 84217..84333, 84231..84350, 84342..84482, 84343..84483		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o3.tm	Method	TBLASTX:Maize
Start	84217	End	84740

GI	none	Score	625
Exons	84217..84639, 84225..84638, 84250..84738, 84413..84640, 84428..84739, 84585..84740		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o14.ts	Method	TBLASTX:Soybean
Start	84694	End	84926
GI	none	Score	205
Exons	84694..84924, 84732..84926		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o9.tc	Method	TBLASTX:Cress
Start	84703	End	85038
GI	none	Score	252
Exons	84703..85038		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o7.tc	Method	TBLASTX:Cress
Start	89156	End	91493
GI	none	Score	109
Exons	89156..89302, 89161..89322, 89161..89328, 89305..89364, 89318..89344, 89471..89512, 89522..89587, 90506..90580, 90507..90581, 91376..91489, 91380..91493		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o12.ts	Method	TBLASTX:Soybean
Start	89167	End	89536
GI	none	Score	36
Exons	89167..89208, 89168..89212, 89215..89328, 89216..89311, 89305..89364, 89471..89536		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o19.tm	Method	TBLASTX:Maize
Start	89305	End	91612
GI	none	Score	47
Exons	89305..89364, 89306..89347, 89471..89635, 89472..89612, 90506..90580, 90507..90581, 91349..91501, 91376..91612, 91380..91556		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o22.gs	Method	GENSCAN
Start	93409	End	96366
GI	none	Score	.81
Exons	93409..93537, 94307..94415, 95550..95610, 96072..96126, 96250..96366		

Seq. No.	30125	Seq. ID	OJ990619_35.9927.C5
Gene No.	62117	Strand	-
Start	93409	End	96366
Name	OJ990619_35.9927.C5.o15.np	Method	AAT/NAP
Start	95938	End	96357
GI	3445203	Score	96
Exons	95938..96035, 96193..96357		
GI Descrip.	(AC004786) unknown protein [Arabidopsis thaliana]		

Seq. No.	30126	Seq. ID	OJ990619_35.9927.C6
Gene No.	62118	Strand	+
Start	1	End	533
Name	OJ990619_35.9927.C6.o1.np	Method	AAT/NAP
Start	1	End	476
GI	6006359	Score	55
Exons	1..23, 368..476		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	30126	Seq. ID	OJ990619_35.9927.C6
Gene No.	62118	Strand	+
Start	1	End	533
Name	OJ990619_35.9927.C6.o1.gs	Method	GENSCAN
Start	306	End	533
GI	none	Score	.9
Exons	306..533		

Seq. No.	30127	Seq. ID	OJ990619_34.9922.C2
Gene No.	62119	Strand	+
Start	75	End	292
Name	OJ990619_34.9922.C2.o1.gs	Method	GENSCAN
Start	75	End	292
GI	none	Score	.63
Exons	75..292		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62120	Strand	+
Start	141	End	1645
Name	OJ990619_34.9922.C3.o1.gs	Method	GENSCAN
Start	141	End	1645
GI	none	Score	.54
Exons	141..220, 660..778, 1493..1645		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62121	Strand	+
Start	2654	End	3548
Name	OJ990619_34.9922.C3.o1.np	Method	AAT/NAP
Start	2654	End	3548
GI	5852178	Score	470
Exons	2654..2956, 2988..3091, 3453..3548		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62122	Strand	+
Start	4148	End	6326
Name	OJ990619_34.9922.C3.o2.np	Method	AAT/NAP
Start	4148	End	6326



GI 282996 Score 65  
 Exons 4148..4231, 5885..5962, 6084..6326  
 GI Descrip. hypothetical protein (trnK intron) - barley chloroplast  
 (fragment) gi|11602|emb|CAA36972| (X52765) ORF504 [Hordeum  
 vulgare]

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62123 Strand +  
 Start 7492 End 7953  
 Name OJ990619\_34.9922.C3.o3.np Method AAT/NAP  
 Start 7492 End 7953  
 GI 2244846 Score 392  
 Exons 7492..7953  
 GI Descrip. (Z97337) ferredoxin [Arabidopsis thaliana]

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62124 Strand +  
 Start 8226 End 8604  
 Name OJ990619\_34.9922.C3.o3.gs Method GENSCAN  
 Start 8226 End 8477  
 GI none Score .95  
 Exons 8226..8477

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62124 Strand +  
 Start 8226 End 8604  
 Name OJ990619\_34.9922.C3.o4.np Method AAT/NAP  
 Start 8226 End 8604  
 GI 224159 Score 588  
 Exons 8226..8604  
 GI Descrip. cytochrome b559 [Spinacia oleracea]

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62125 Strand +  
 Start 17654 End 23109  
 Name OJ990619\_34.9922.C3.o6.gs Method GENSCAN  
 Start 17654 End 23109  
 GI none Score .59  
 Exons 17654..17747, 17880..18083, 19944..20207, 20864..21055,  
 22463..22583, 22962..23109

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62126 Strand -  
 Start 1822 End 8004  
 Name OJ990619\_34.9922.C3.o2.gs Method GENSCAN  
 Start 1822 End 8004  
 GI none Score .63  
 Exons 1822..1893, 2351..2636, 2716..3003, 3023..3227, 4007..4041,  
 7481..8004

Seq. No. 30128 Seq. ID OJ990619\_34.9922.C3  
 Gene No. 62127 Strand -  
 Start 11014 End 11262  
 Name OJ990619\_34.9922.C3.o5.np Method AAT/NAP  
 Start 11014 End 11262  
 GI 4263709 Score 166  
 Exons 11014..11262

GI Descrip. (AC006223) unknown protein [Arabidopsis thaliana]

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o2.gp	Method	AAT/GAP
Start	12628	End	13122
GI	none	Score	958
Exons	12628..13122		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o5.gs	Method	GENSCAN
Start	12630	End	17341
GI	none	Score	.94
Exons	12630..13107, 13305..14046, 14511..14900, 15197..15255, 15342..15482, 15605..15701, 17155..17341		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o3.gp	Method	AAT/GAP
Start	13605	End	14026
GI	none	Score	840
Exons	13605..14026		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o6.np	Method	AAT/NAP
Start	13770	End	16387
GI	2245099	Score	83
Exons	13770..13885, 14677..14808, 15177..15234, 16351..16387		
GI Descrip.	(Z97343) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o7.np	Method	AAT/NAP
Start	13770	End	16465
GI	2245099	Score	88
Exons	13770..13885, 14677..14808, 15177..15261, 15338..15479, 15525..15748, 16424..16465		
GI Descrip.	(Z97343) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62128	Strand	-
Start	12630	End	17341
Name	OJ990619_34.9922.C3.o4.gp	Method	AAT/GAP
Start	14137	End	14588
GI	none	Score	884
Exons	14137..14588		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62129	Strand	-
Start	23903	End	24317

Name OJ990619\_34.9922.C3.o2.tc  
 Start 7647  
 GI none  
 Exons 7647..7796, 7648..7923

Method TBLASTX:Cress  
 End 7923  
 Score 281

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o3.tm  
 Start 7647  
 GI none  
 Exons 7647..7886, 7648..7962, 7912..7938

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Maize  
 End 7962  
 Score 418

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o1.ts  
 Start 7648  
 GI none  
 Exons 7648..7956, 7650..7793

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Soybean  
 End 7956  
 Score 368

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o1.tc  
 Start 8199  
 GI none  
 Exons 8199..8480, 8204..8485, 8208..8480, 8216..8482, 8486..8614, 8487..8615, 8487..8615, 8488..8616, 8488..8616

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Cress  
 End 8616  
 Score 442

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o1.tw  
 Start 8319  
 GI none  
 Exons 8319..8624, 8320..8616

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Wheat  
 End 8624  
 Score 467

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o2.tm  
 Start 11035  
 GI none  
 Exons 11035..11124, 11041..11187, 11063..11326, 11242..11325, 11324..11413, 11328..11414, 11328..11429, 11401..11424

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Maize  
 End 11429  
 Score 94

Seq. No. 30128  
 Gene No. 62129  
 Start 23903  
 Name OJ990619\_34.9922.C3.o5.tm  
 Start 13369  
 GI none  
 Exons 13369..13563, 13375..13572, 13436..13576, 13437..13577

Seq. ID OJ990619\_34.9922.C3  
 Strand -  
 End 24317  
 Method TBLASTX:Maize  
 End 13577  
 Score 173

Seq. No. 30128  
 Gene No. 62129

Seq. ID OJ990619\_34.9922.C3  
 Strand -

Start	23903	End	24317
Name	OJ990619_34.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	13408	End	13724
GI	none	Score	50
Exons	13408..13443, 13451..13546, 13451..13651, 13465..13662, 13467..13724		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62129	Strand	-
Start	23903	End	24317
Name	OJ990619_34.9922.C3.o4.tm	Method	TBLASTX:Maize
Start	13827	End	14026
GI	none	Score	68
Exons	13827..14015, 13835..14026, 13836..13898, 13847..14014, 13957..14019		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62129	Strand	-
Start	23903	End	24317
Name	OJ990619_34.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	14520	End	15246
GI	none	Score	100
Exons	14520..14657, 14521..14664, 14522..14665, 14671..14898, 14675..14854, 14677..14886, 15202..15246		

Seq. No.	30128	Seq. ID	OJ990619_34.9922.C3
Gene No.	62129	Strand	-
Start	23903	End	24317
Name	OJ990619_34.9922.C3.o7.gs	Method	GENSCAN
Start	23903	End	24317
GI	none	Score	.94
Exons	23903..24050, 24277..24317		

Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62130	Strand	+
Start	116	End	996
Name	OJ990619_34.9922.C4.o1.gs	Method	GENSCAN
Start	116	End	996
GI	none	Score	.74
Exons	116..220, 785..807, 891..996		

Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62131	Strand	+
Start	2885	End	4696
Name	OJ990619_34.9922.C4.o3.gs	Method	GENSCAN
Start	2885	End	4696
GI	none	Score	.58
Exons	2885..2966, 2975..3100, 3728..3918, 3975..4266, 4569..4696		

Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62132	Strand	+
Start	4996	End	11711
Name	OJ990619_34.9922.C4.o4.gs	Method	GENSCAN
Start	4996	End	11711
GI	none	Score	.54
Exons	4996..5090, 6376..6476, 7750..7957, 11313..11483, 11558..11711		

Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62133	Strand	+
Start	12225	End	14023
Name	OJ990619_34.9922.C4.o2.np	Method	AAT/NAP
Start	12204	End	14023
GI	1171577	Score	910
Exons	12204..12659, 13069..14023		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62133	Strand	+
Start	12225	End	14023
Name	OJ990619_34.9922.C4.o5.gs	Method	GENSCAN
Start	12225	End	14004
GI	none	Score	.96
Exons	12225..12659, 13069..14004		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62134	Strand	+
Start	16272	End	16377
Name	OJ990619_34.9922.C4.o2.gp	Method	AAT/GAP
Start	16272	End	16377
GI	LIB3477-003-P1-K1-E9	Score	169
Exons	16272..16377		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62135	Strand	-
Start	826	End	5226
Name	OJ990619_34.9922.C4.o1.np	Method	AAT/NAP
Start	826	End	5226
GI	6815052	Score	1536
Exons	826..947, 1217..1299, 1381..2066, 2115..2255, 3085..3177, 4128..4224, 4524..4647, 4917..4999, 5081..5226		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62135	Strand	-
Start	826	End	5226
Name	OJ990619_34.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	2379	End	2873
GI	none	Score	86
Exons	2379..2675, 2697..2873		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62136	Strand	
Start	12234	End	12662
Name	OJ990619_34.9922.C4.o2.ts	Method	TBLASTX:Soybean
Start	12234	End	12662
GI	none	Score	125
Exons	12234..12365, 12257..12334, 12396..12662, 12435..12659		
Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62137	Strand	
Start	13069	End	13953

Name	OJ990619_34.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	13069	End	13953
GI	none	Score	109
Exons	13069..13182, 13204..13293, 13347..13469, 13348..13530, 13530..13835, 13531..13953, 13875..13949		

Seq. No.	30129	Seq. ID	OJ990619_34.9922.C4
Gene No.	62137	Strand	
Start	13069	End	13953
Name	OJ990619_34.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	13498	End	13878
GI	none	Score	71
Exons	13498..13593, 13624..13836, 13626..13832, 13810..13878		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62138	Strand	+
Start	6003	End	9428
Name	OJ990619_34.9922.C5.o2.gs	Method	GENSCAN
Start	6003	End	9131
GI	none	Score	.55
Exons	6003..6164, 6343..6469, 6525..6716, 6950..7068, 7224..7346, 8748..9131		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62138	Strand	+
Start	6003	End	9428
Name	OJ990619_34.9922.C5.o1.np	Method	AAT/NAP
Start	7170	End	9428
GI	6692123	Score	425
Exons	7170..7346, 8748..8987, 9329..9428		
GI Descrip.	(AC007654) T19E23.11 [Arabidopsis thaliana]		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62139	Strand	-
Start	945	End	5196
Name	OJ990619_34.9922.C5.o1.gs	Method	GENSCAN
Start	945	End	5196
GI	none	Score	.66
Exons	945..1333, 3685..3742, 3998..4077, 5079..5196		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	10022	End	10334
GI	none	Score	81
Exons	10022..10147, 10044..10151, 10215..10334, 10217..10315		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o2.np	Method	AAT/NAP
Start	10037	End	12524
GI	4966372	Score	631
Exons	10037..10126, 10217..10295, 10380..10425, 10506..10763, 10866..10941, 11040..11096, 11232..11285, 12094..12162, 12255..12524		

GI Descrip. (AC006341) ESTs gb|N38586 and gb|N38613 come from this gene.  
[Arabidopsis thaliana]

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	10040	End	10770
GI	none	Score	56
Exons	10040..10129, 10044..10139, 10215..10298, 10217..10297, 10376..10414, 10389..10415, 10648..10770		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o3.tm	Method	TBLASTX:Maize
Start	10040	End	10533
GI	none	Score	115
Exons	10040..10147, 10043..10129, 10044..10151, 10200..10298, 10215..10298, 10216..10299, 10217..10315, 10339..10443, 10376..10426, 10504..10533		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o3.gs	Method	GENSCAN
Start	10592	End	24402
GI	none	Score	.64
Exons	10592..10700, 10742..10769, 10866..10989, 11232..11285, 12094..12162, 12255..12591, 14592..14649, 14834..15044, 15389..15465, 15561..15652, 15950..15992, 16708..16791, 16903..16982, 18389..18483, 18678..18739, 18872..18953, 19393..19815, 21176..21383, 23223..23505, 23628..23667, 24111..24402		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	12091	End	12524
GI	none	Score	184
Exons	12091..12162, 12252..12524		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o6.tm	Method	TBLASTX:Maize
Start	12282	End	12515
GI	none	Score	42
Exons	12282..12317, 12282..12515, 12397..12471, 12414..12515		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	14546	End	15068
GI	none	Score	301

Exons 14546..14839, 14581..14841, 14583..14840, 14825..15061,  
14832..15056, 14836..15060, 14841..15068

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o3.np	Method	AAT/NAP
Start	14577	End	21282
GI	6751690	Score	1170
Exons	14577..14885, 14921..15044, 15389..15465, 15561..15652, 15950..16056, 16165..16250, 16364..16480, 16708..16791, 16903..16982, 18389..18483, 18678..18846, 19691..19815, 20017..20079, 21176..21282		

GI Descrip. (AC018908) unknown protein [Arabidopsis thaliana]

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o1.gp	Method	AAT/GAP
Start	14811	End	16015
GI	2443167	Score	878
Exons	14811..15044, 15389..15465, 15561..15652, 15950..16015		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	15386	End	16939
GI	none	Score	97
Exons	15386..15481, 15387..15467, 15553..15672, 15558..15674, 15561..15653, 15950..16057, 15952..16038, 15959..16051, 16162..16263, 16166..16264, 16365..16481, 16366..16482, 16366..16482, 16709..16792, 16710..16793, 16895..16939		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	15386	End	16952
GI	none	Score	133
Exons	15386..15466, 15387..15467, 15413..15457, 15414..15455, 15535..15672, 15544..15588, 15561..15653, 16700..16792, 16702..16791, 16710..16793, 16901..16951, 16902..16952		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402
Name	OJ990619_34.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	15910	End	16482
GI	none	Score	78
Exons	15910..16080, 15910..16038, 15944..16087, 15947..16090, 15951..16094, 16162..16263, 16163..16252, 16364..16474, 16366..16476, 16366..16482		

Seq. No.	30130	Seq. ID	OJ990619_34.9922.C5
Gene No.	62140	Strand	-
Start	10592	End	24402



Name OJ990619\_34.9922.C5.o2.gp  
 Start 21176  
 GI none  
 Exons 21176..21565

Method AAT/GAP  
 End 21565  
 Score 588

Seq. No. 30130  
 Gene No. 62140  
 Start 10592  
 Name OJ990619\_34.9922.C5.o5.tm  
 Start 21188  
 GI none  
 Exons 21188..21322, 21188..21340, 21192..21344

Seq. ID OJ990619\_34.9922.C5  
 Strand -  
 End 24402  
 Method TBLASTX:Maize  
 End 21344  
 Score 181

Seq. No. 30131  
 Gene No. 62141  
 Start 303  
 Name OJ990619\_34.9922.C6.o1.gs  
 Start 303  
 GI none  
 Exons 303..361, 645..848, 1464..1621, 1773..1984, 1989..2088

Seq. ID OJ990619\_34.9922.C6  
 Strand -  
 End 2088  
 Method GENSCAN  
 End 2088  
 Score .6

Seq. No. 30132  
 Gene No. 62142  
 Start 16518  
 Name OJ990619\_34.9922.C7.o2.gs  
 Start 16518  
 GI none  
 Exons 16518..16555, 17516..17627, 17649..17848, 18434..18527, 18695..18727

Seq. ID OJ990619\_34.9922.C7  
 Strand +  
 End 18727  
 Method GENSCAN  
 End 18727  
 Score .84

Seq. No. 30132  
 Gene No. 62143  
 Start 19771  
 Name OJ990619\_34.9922.C7.o3.gs  
 Start 19771  
 GI none  
 Exons 19771..20091

Seq. ID OJ990619\_34.9922.C7  
 Strand +  
 End 20091  
 Method GENSCAN  
 End 20091  
 Score .91

Seq. No. 30132  
 Gene No. 62144  
 Start 23191  
 Name OJ990619\_34.9922.C7.o5.gs  
 Start 23191  
 GI none  
 Exons 23191..23230, 24967..25015, 26116..26255, 27031..27189, 27203..27429

Seq. ID OJ990619\_34.9922.C7  
 Strand +  
 End 27429  
 Method GENSCAN  
 End 27429  
 Score .67

Seq. No. 30132  
 Gene No. 62145  
 Start 28325  
 Name OJ990619\_34.9922.C7.o6.np  
 Start 28325  
 GI 6056370  
 Exons 28325..28414, 28717..28978  
 GI Descrip. (AC009894) Unknown protein [Arabidopsis thaliana]

Seq. ID OJ990619\_34.9922.C7  
 Strand +  
 End 28981  
 Method AAT/NAP  
 End 28978  
 Score 85

Seq. No. 30132  
 Seq. ID OJ990619\_34.9922.C7

Gene No. 62145  
 Start 28325  
 Name OJ990619\_34.9922.C7.o6.gs  
 Start 28667  
 GI none  
 Exons 28667..28981

Strand +  
 End 28981  
 Method GENSCAN  
 End 28981  
 Score .9

Seq. No. 30132  
 Gene No. 62146  
 Start 1649  
 Name OJ990619\_34.9922.C7.o1.np  
 Start 1649  
 GI 5852079  
 Exons 1649..1900, 3632..3676  
 GI Descrip. (AL117264) zwh0002.1 [Oryza sativa]

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 3676  
 Method AAT/NAP  
 End 3676  
 Score 205

Seq. No. 30132  
 Gene No. 62147  
 Start 7419  
 Name OJ990619\_34.9922.C7.o3.np  
 Start 7419  
 GI 4680203  
 Exons 7419..7438, 8556..9474, 9751..9978, 10138..10242, 10312..11757, 13312..13367  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 13367  
 Method AAT/NAP  
 End 13367  
 Score 1535

Seq. No. 30132  
 Gene No. 62148  
 Start 20431  
 Name OJ990619\_34.9922.C7.o1.tw  
 Start 8664  
 GI none  
 Exons 8664..8732, 8739..8843, 8746..8838, 8856..8960, 8874..8930, 8949..9104, 8965..9138, 9159..9392, 9343..9390, 9409..9867, 9416..9622

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 27448  
 Method TBLASTX:Wheat  
 End 9867  
 Score 73

Seq. No. 30132  
 Gene No. 62148  
 Start 20431  
 Name OJ990619\_34.9922.C7.o3.tm  
 Start 8968  
 GI none  
 Exons 8968..9081, 8970..9089, 9093..9263, 9094..9246

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 27448  
 Method TBLASTX:Maize  
 End 9263  
 Score 91

Seq. No. 30132  
 Gene No. 62148  
 Start 20431  
 Name OJ990619\_34.9922.C7.o1.tc  
 Start 9159  
 GI none  
 Exons 9159..9392, 9343..9390, 9409..9576, 9416..9577

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 27448  
 Method TBLASTX:Cress  
 End 9577  
 Score 46

Seq. No. 30132  
 Gene No. 62148  
 Start 20431  
 Name OJ990619\_34.9922.C7.o1.tm  
 Start 9508

Seq. ID OJ990619\_34.9922.C7  
 Strand -  
 End 27448  
 Method TBLASTX:Maize  
 End 9891

GI	none	Score	294
Exons	9508..9822, 9512..9823, 9823..9891		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o3.tw	Method	TBLASTX:Wheat
Start	10496	End	10842
GI	none	Score	38
Exons	10496..10546, 10507..10545, 10555..10653, 10579..10641, 10697..10795, 10699..10797, 10801..10842		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o2.tc	Method	TBLASTX:Cress
Start	10747	End	11100
GI	none	Score	285
Exons	10747..11100		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	10768	End	10976
GI	none	Score	126
Exons	10768..10971, 10768..10974, 10784..10975, 10785..10976		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o2.ts	Method	TBLASTX:Soybean
Start	10828	End	11068
GI	none	Score	103
Exons	10828..11067, 10829..11068		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o2.tw	Method	TBLASTX:Wheat
Start	10843	End	11427
GI	none	Score	73
Exons	10843..10971, 10969..11088, 10982..11086, 11117..11371, 11137..11427		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	11132	End	11409
GI	none	Score	100
Exons	11132..11392, 11137..11409		
Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o4.gs	Method	GENSCAN

Start	20431	End	22131
GI	none	Score	.82
Exons	20431..20656, 20852..20939, 21151..21284, 21460..21592, 22023..22131		

Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o4.np	Method	AAT/NAP
Start	21788	End	23469
GI	6907086	Score	1150
Exons	21788..22232, 22463..22633, 22694..23469		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	30132	Seq. ID	OJ990619_34.9922.C7
Gene No.	62148	Strand	-
Start	20431	End	27448
Name	OJ990619_34.9922.C7.o5.np	Method	AAT/NAP
Start	22627	End	27448
GI	4680186	Score	180
Exons	22627..22655, 24384..24544, 25015..25087, 27305..27448		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	30133	Seq. ID	OJ990619_34.9922.C8
Gene No.	62149	Strand	+
Start	481	End	852
Name	OJ990619_34.9922.C8.o1.np	Method	AAT/NAP
Start	481	End	852
GI	2498930	Score	259
Exons	481..544, 712..852		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	30133	Seq. ID	OJ990619_34.9922.C8
Gene No.	62149	Strand	+
Start	481	End	852
Name	OJ990619_34.9922.C8.o1.gs	Method	GENSCAN
Start	485	End	816
GI	none	Score	.82
Exons	485..544, 712..816		

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o4.tc	Method	TBLASTX:Cress
Start	21	End	369
GI	none	Score	125
Exons	21..116, 21..116, 22..177, 104..190, 120..191, 220..273, 222..269, 243..284, 245..289, 275..304, 282..368, 284..367, 292..369		

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	24	End	535
GI	none	Score	300

Exons 24..215, 24..215, 26..220, 208..288, 222..284, 225..305,  
234..533, 263..535, 263..535

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o3.ts	Method	TBLASTX:Soybean
Start	2218	End	2589
GI	none	Score	133
Exons	2218..2334, 2219..2299, 2250..2306, 2313..2342, 2325..2378, 2338..2391, 2339..2392, 2381..2473, 2384..2461, 2389..2463, 2474..2527, 2475..2525, 2476..2538, 2476..2526, 2538..2588, 2563..2589		

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o3.gp	Method	AAT/GAP
Start	2420	End	2589
GI	2669_1.R1084	Score	283
Exons	2420..2589		
GI Descrip.	'3914470/sp Q40070 PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]'		

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	2426	End	2589
GI	none	Score	262
Exons	2426..2587, 2427..2588, 2438..2587, 2440..2589		

Seq. No.	30134	Seq. ID	OJ990619_37.9922.C1
Gene No.	62152	Strand	-
Start	2420	End	2589
Name	OJ990619_37.9922.C1.o5.tc	Method	TBLASTX:Cress
Start	2438	End	2589
GI	none	Score	210
Exons	2438..2587, 2438..2587, 2440..2589		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62153	Strand	+
Start	2361	End	2795
Name	OJ990619_37.9922.C2.o1.gp	Method	AAT/GAP
Start	2361	End	2795
GI	5886_1.R1084	Score	840
Exons	2361..2795		
GI Descrip.	'11957/emb X15901 CHOSXX 0.0e+00 Rice complete chloroplast genome'		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62154	Strand	+
Start	5265	End	5467
Name	OJ990619_37.9922.C2.o3.gp	Method	AAT/GAP
Start	5265	End	5467
GI	6012822	Score	337

Exons 5265..5467  
 GI Descrip. 11957/emb|X15901|CHOSXX 1.0e-52 Rice complete chloroplast genome

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62155	Strand	+
Start	15565	End	16006
Name	OJ990619_37.9922.C2.o4.gp	Method	AAT/GAP
Start	15565	End	16006
GI	LIB3431-005-P1-N1-A5	Score	869

Exons 15565..16006  
 GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi\_11958\_emb\_CAA34007\_ (X15901) PSII 32kDa protein [Oryza sativa] >gi\_343212\_ (M36191) Q-B protein (psbA) [Oryza sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa] >gi\_226406\_prf\_15'

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62156	Strand	-
Start	2942	End	3314
Name	OJ990619_37.9922.C2.o2.gp	Method	AAT/GAP
Start	2942	End	3314
GI	LIB3431-005-P1-N1-A5	Score	695

Exons 2942..3314  
 GI Descrip. '131251/sp|P12094|PSBA\_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi\_72661\_pir\_FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi\_11958\_emb\_CAA34007\_ (X15901) PSII 32kDa protein [Oryza sativa] >gi\_343212\_ (M36191) Q-B protein (psbA) [Oryza sativa] >gi\_226249\_prf\_1503143A psbA gene [Oryza sativa] >gi\_226406\_prf\_15'

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o4.tm	Method	TBLASTX:Maize
Start	1	End	275
GI	none	Score	113
Exons	1..63, 3..71, 3..62, 50..259, 59..250, 60..266, 60..275, 61..270		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o1.tw	Method	TBLASTX:Wheat
Start	45	End	264
GI	none	Score	353
Exons	45..263, 45..263, 46..264		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o9.tc	Method	TBLASTX:Cress
Start	212	End	717
GI	none	Score	55
Exons	212..259, 212..250, 307..414, 311..388, 322..414, 371..565, 389..568, 390..566, 601..651, 602..652, 640..714, 661..717		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o14.ts	Method	TBLASTX:Soybean
Start	649	End	972
GI	none	Score	82
Exons	649..699, 651..701, 794..883, 796..885, 799..885, 800..886, 889..972, 890..970		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o3.tm	Method	TBLASTX:Maize
Start	678	End	958
GI	none	Score	367
Exons	678..905, 678..887, 680..916, 680..904, 861..956, 883..957, 884..958, 886..957		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o5.tm	Method	TBLASTX:Maize
Start	2411	End	2681
GI	none	Score	256
Exons	2411..2632, 2411..2524, 2412..2633, 2530..2580, 2533..2580, 2621..2680, 2622..2681, 2622..2681		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o1.ts	Method	TBLASTX:Soybean
Start	2752	End	16196
GI	none	Score	168
Exons	2752..2988, 2764..2994, 2771..2995, 3127..3651, 3132..3866, 3133..4377, 3134..4405, 4309..4416, 4311..4406, 4412..4795, 4417..4722, 4464..4793, 4765..4794, 15638..15793, 15641..15814, 15648..15815, 15648..15821, 15953..16177, 15954..16184, 15960..16196		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o7.tm	Method	TBLASTX:Maize
Start	2892	End	16056
GI	none	Score	175
Exons	2892..3002, 2892..3008, 2893..3003, 2930..3022, 3014..3079, 3019..3084, 3036..3101, 3055..3093, 3096..3122, 3097..3123, 3119..3175, 3130..3174, 3134..3175, 3135..3176, 15773..15829, 15773..15814, 15774..15818, 15825..15851, 15826..15852, 15847..15912, 15855..15893, 15864..15929, 15869..15934, 15918..16055, 15926..16018, 15940..16056, 15946..16056		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o3.tc	Method	TBLASTX:Cress

Start	3620	End	4075
GI	none	Score	126
Exons	3620..3682, 3622..3684, 3694..4068, 3695..4072, 3920..4075		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o1.tc	Method	TBLASTX:Cress
Start	4187	End	6591
GI	none	Score	288
Exons	4187..4408, 4187..4408, 4309..4410, 4412..4870, 4464..4871, 4666..4890, 5858..5938, 5860..6204, 5866..6204, 5868..6206, 5993..6211, 6163..6360, 6198..6398, 6204..6395, 6416..6589, 6426..6590, 6463..6591, 6472..6591		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o3.ts	Method	TBLASTX:Soybean
Start	4873	End	6403
GI	none	Score	40
Exons	4873..4995, 4946..4996, 4981..5043, 5004..5042, 5091..5126, 5096..5128, 5160..5228, 5194..5226, 5320..5403, 5323..5397, 5561..5599, 5615..5650, 5651..5686, 5761..6360, 5766..5825, 5767..6378, 5781..6401, 5859..6401, 5981..6403		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o13.ts	Method	TBLASTX:Soybean
Start	6496	End	6691
GI	none	Score	177
Exons	6496..6690, 6502..6690, 6503..6691		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o1.tm	Method	TBLASTX:Maize
Start	6674	End	8965
GI	none	Score	67
Exons	6674..6727, 8518..8934, 8519..8935, 8520..8936, 8906..8965		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o7.ts	Method	TBLASTX:Soybean
Start	6693	End	6943
GI	none	Score	124
Exons	6693..6815, 6694..6819, 6695..6817, 6810..6932, 6818..6943, 6818..6943		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o11.ts	Method	TBLASTX:Soybean
Start	7402	End	7663
GI	none	Score	135



Exons 7402..7497, 7403..7495, 7404..7496, 7480..7662, 7494..7661, 7502..7663

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o13.tc	Method	TBLASTX:Cress
Start	7611	End	7836
GI	none	Score	218
Exons	7611..7808, 7612..7815, 7612..7836		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o5.ts	Method	TBLASTX:Soybean
Start	7771	End	9272
GI	none	Score	328
Exons	7771..7842, 7972..8205, 7982..8323, 7982..8320, 7983..8324, 8581..8616, 8643..8696, 8649..8693, 8734..9036, 8756..9037, 8769..9047, 9085..9129, 9089..9130, 9129..9272, 9130..9255		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o11.tc	Method	TBLASTX:Cress
Start	7981	End	8306
GI	none	Score	210
Exons	7981..8211, 7981..8205, 7982..8305, 7983..8306		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o2.tw	Method	TBLASTX:Wheat
Start	8512	End	8748
GI	none	Score	78
Exons	8512..8559, 8513..8563, 8513..8563, 8520..8564, 8559..8648, 8567..8638, 8575..8649, 8647..8694, 8650..8700, 8651..8704, 8652..8705, 8703..8747, 8704..8748, 8704..8748		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o7.tc	Method	TBLASTX:Cress
Start	8755	End	9272
GI	none	Score	213
Exons	8755..8958, 8755..8958, 8756..8959, 8953..9042, 8954..9031, 9112..9129, 9129..9272, 9130..9270		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o12.ts	Method	TBLASTX:Soybean
Start	9273	End	9548
GI	none	Score	270
Exons	9273..9548, 9280..9516, 9452..9547		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
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Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o12.tc	Method	TBLASTX:Cress
Start	9298	End	9579
GI	none	Score	106
Exons	9298..9372, 9305..9418, 9305..9418, 9306..9419, 9418..9579, 9420..9578		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o6.tm	Method	TBLASTX:Maize
Start	9502	End	14242
GI	none	Score	163
Exons	9502..9696, 9558..9695, 9790..9945, 9804..9944, 14132..14242		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o4.ts	Method	TBLASTX:Soybean
Start	9549	End	14257
GI	none	Score	443
Exons	9549..10049, 9549..9974, 9550..10050, 10011..10049, 14117..14257		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o4.tc	Method	TBLASTX:Cress
Start	9580	End	10119
GI	none	Score	48
Exons	9580..9690, 9661..10074, 9665..9955, 9669..10118, 9672..10052, 9676..10119		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o5.tc	Method	TBLASTX:Cress
Start	10171	End	10629
GI	none	Score	586
Exons	10171..10629, 10173..10526		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o2.tm	Method	TBLASTX:Maize
Start	10250	End	10701
GI	none	Score	549
Exons	10250..10672, 10251..10673, 10252..10674, 10252..10701		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o10.ts	Method	TBLASTX:Soybean
Start	10330	End	10584
GI	none	Score	317
Exons	10330..10581, 10332..10520, 10346..10576, 10348..10584		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o6.tc	Method	TBLASTX:Cress
Start	10845	End	11482
GI	none	Score	268
Exons	10845..11075, 10845..11027, 10847..11074, 11091..11177, 11114..11191, 11116..11205, 11276..11473, 11304..11471, 11304..11480, 11351..11482		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o2.ts	Method	TBLASTX:Soybean
Start	10847	End	11801
GI	none	Score	339
Exons	10847..11218, 10848..11222, 10964..11230, 11273..11473, 11307..11471, 11331..11510, 11351..11515, 11510..11704, 11513..11707, 11514..11714, 11712..11801, 11765..11800		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o10.tc	Method	TBLASTX:Cress
Start	13373	End	13701
GI	none	Score	320
Exons	13373..13438, 13387..13701, 13388..13687		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o8.ts	Method	TBLASTX:Soybean
Start	13394	End	13680
GI	none	Score	366
Exons	13394..13678, 13396..13680, 13399..13680		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o6.ts	Method	TBLASTX:Soybean
Start	13758	End	14115
GI	none	Score	395
Exons	13758..14099, 13759..14115, 13760..14065		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o8.tc	Method	TBLASTX:Cress
Start	13876	End	14328
GI	none	Score	110
Exons	13876..14328, 13877..13951, 13991..14269		

Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o2.tc	Method	TBLASTX:Cress
Start	14348	End	14839

GI	none	Score	684
Exons	14348..14839, 14352..14678, 14422..14838		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o9.ts	Method	TBLASTX:Soybean
Start	14510	End	14752
GI	none	Score	358
Exons	14510..14752, 14510..14686, 14512..14751		
Seq. No.	30135	Seq. ID	OJ990619_37.9922.C2
Gene No.	62157	Strand	-
Start	16153	End	16282
Name	OJ990619_37.9922.C2.o5.gp	Method	AAT/GAP
Start	16153	End	16282
GI	5886_1.R1084	Score	260
Exons	16153..16282		
GI Descrip.	'11957/emb X15901 CHOSXX 0.0e+00 Rice complete chloroplast genome'		
Seq. No.	30136	Seq. ID	OJ990619_37.9922.C3
Gene No.	62158	Strand	
Start	183	End	506
Name	OJ990619_37.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	183	End	506
GI	none	Score	79
Exons	183..266, 185..265, 269..355, 270..356, 270..359, 272..361, 454..504, 456..506, 456..506		
Seq. No.	30136	Seq. ID	OJ990619_37.9922.C3
Gene No.	62158	Strand	
Start	183	End	506
Name	OJ990619_37.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	197	End	477
GI	none	Score	104
Exons	197..271, 198..269, 198..272, 199..270, 239..475, 250..477, 251..475, 268..477		
Seq. No.	30137	Seq. ID	OJ990619_37.9922.C4
Gene No.	62159	Strand	
Start	1	End	539
Name	OJ990619_37.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	1	End	505
GI	none	Score	56
Exons	1..78, 46..102, 113..166, 130..165, 130..261, 165..287, 171..287, 172..288, 176..295, 283..399, 295..399, 296..409, 408..500, 420..500, 422..505		
Seq. No.	30137	Seq. ID	OJ990619_37.9922.C4
Gene No.	62159	Strand	
Start	1	End	539
Name	OJ990619_37.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	1	End	539
GI	none	Score	804
Exons	1..537, 1..531, 3..539, 3..539		

Seq. No.	30137	Seq. ID	OJ990619_37.9922.C4
Gene No.	62159	Strand	
Start	1	End	539
Name	OJ990619_37.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	109	End	531
GI	none	Score	54
Exons	109..165, 110..169, 129..170, 142..264, 171..290, 172..300, 343..378, 353..376, 412..438, 419..493, 439..510, 453..497, 505..531		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62160	Strand	+
Start	3357	End	3418
Name	OJ990619_37.9922.C5.o2.gp	Method	AAT/GAP
Start	3357	End	3418
GI	56420_1.R1084	Score	88
Exons	3357..3418		
GI Descrip.	'2979562 2.0e-16 (AC003680) unknown protein [Arabidopsis thaliana] >gi_3386623 (AC004665) unknown protein [Arabidopsis thaliana]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62161	Strand	+
Start	10249	End	10978
Name	OJ990619_37.9922.C5.o5.gp	Method	AAT/GAP
Start	10249	End	10978
GI	24824_1.R1084	Score	1379
Exons	10249..10978		
GI Descrip.	'476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa] >gi_1583954_prf_2121489A RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62162	Strand	+
Start	11075	End	11900
Name	OJ990619_37.9922.C5.o6.gp	Method	AAT/GAP
Start	11075	End	11900
GI	14384_1.R1084	Score	1358
Exons	11075..11786, 11872..11900		
GI Descrip.	'5881726/dbj BAA84417.1  3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62163	Strand	+
Start	13716	End	14339
Name	OJ990619_37.9922.C5.o7.gp	Method	AAT/GAP
Start	13716	End	14339
GI	7528_2.R1084	Score	1139
Exons	13716..14339		
GI Descrip.	'140291/sp P12206 YCF4 ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi_82541_pir_S05116 hypothetical protein 185 - rice chloroplast >gi_11997_emb_CAA33958 (X15901) ORF185 [Oryza sativa] >gi_226618_prf_1603356AQ ORF 185 [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62164	Strand	+
Start	15750	End	16191

Name OJ990619\_37.9922.C5.o9.gp Method AAT/GAP  
 Start 15750 End 16191  
 GI uC-osflm202092b08b1 Score 831  
 Exons 15750..16191  
 GI Descrip. '118048/sp|P07888|CYF\_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR  
 >gi\_65615\_pir\_CFRZ plastoquinol--plastocyanin reductase (EC  
 1.10.99.1) cytochrome f precursor - rice chloroplast  
 >gi\_12000\_emb\_CAA33961\_ (X15901) cytochrome f [Oryza sativa]  
 >gi\_226621\_prf\_1603356AU cytochrome f [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62165 Strand +  
 Start 20756 End 21278  
 Name OJ990619\_37.9922.C5.o10.gp Method AAT/GAP  
 Start 20756 End 21278  
 GI uC-osflm202104g03b1 Score 1026  
 Exons 20756..21278  
 GI Descrip. '131211/sp|P19443|PSAJ\_MAIZE 6.0e-10 PHOTOSYSTEM I REACTION  
 CENTRE SUBUNIT IX (PSI-J) >gi\_1363533\_pir\_S58571 photosystem I  
 protein psaJ - maize chloroplast >gi\_552734 (J04502) ORF42 [Zea  
 mays] >gi\_902241\_emb\_CAA60305\_ (X86563) psaJ [Zea mays]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62166 Strand +  
 Start 24823 End 24951  
 Name OJ990619\_37.9922.C5.o12.gp Method AAT/GAP  
 Start 24823 End 24951  
 GI LIB3432-057-P1-K1-A8 Score 169  
 Exons 24823..24951  
 GI Descrip. '11957/emb|X15901|CHOSXX 7.0e-52 Rice complete chloroplast  
 genome'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62167 Strand +  
 Start 25501 End 26053  
 Name OJ990619\_37.9922.C5.o13.gp Method AAT/GAP  
 Start 25501 End 26053  
 GI 2896\_1.R1084 Score 1023  
 Exons 25501..26053  
 GI Descrip. '131271/sp|P12157|PSBB\_ORYSA 2.0e-88 PHOTOSYSTEM II P680  
 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) >gi\_72705\_pir\_QJRZ6A  
 photosystem II chlorophyll a-binding protein psbB - rice  
 chloroplast >gi\_12013\_emb\_CAA33973\_ (X15901) PSII 47kDa protein  
 [Oryza sativa] >gi\_226634\_prf\_1603356BH photosystem II 47kD  
 protein [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62168 Strand +  
 Start 28110 End 28616  
 Name OJ990619\_37.9922.C5.o16.gp Method AAT/GAP  
 Start 28110 End 28616  
 GI uC-osflcyp011b01b1 Score 987  
 Exons 28110..28616  
 GI Descrip. '343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa]  
 >gi\_226762\_prf\_1604469A cytochrome b6 [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5

Gene No. 62169 Strand +  
 Start 34636 End 35740  
 Name OJ990619\_37.9922.C5.o21.gp Method AAT/GAP  
 Start 34636 End 35740  
 GI 2291 1.R1084 Score 2153  
 Exons 34636..35740  
 GI Descrip. '133936/sp|P12146|RR3\_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL  
 PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
 chloroplast >gi\_12025\_emb\_CAA33934\_ (X15901) ribosomal protein  
 S3 [Oryza sativa] >gi\_226646\_prf\_\_1603356BW ribosomal protein S3  
 [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62170 Strand +  
 Start 35755 End 37227  
 Name OJ990619\_37.9922.C5.o22.gp Method AAT/GAP  
 Start 35755 End 37227  
 GI 3073 1.R1084 Score 2931  
 Exons 35755..37227  
 GI Descrip. '133936/sp|P12146|RR3\_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL  
 PROTEIN S3 >gi\_70867\_pir\_R3RZ3 ribosomal protein S3 - rice  
 chloroplast >gi\_12025\_emb\_CAA33934\_ (X15901) ribosomal protein  
 S3 [Oryza sativa] >gi\_226646\_prf\_\_1603356BW ribosomal protein S3  
 [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62171 Strand -  
 Start 1509 End 1624  
 Name OJ990619\_37.9922.C5.o1.gp Method AAT/GAP  
 Start 1509 End 1624  
 GI LIB3431-013-P1-K1-B3 Score 181  
 Exons 1509..1624  
 GI Descrip. '6002093/emb|X84149.1|CHZLRPS4G 9.0e-21 Zizania latifolia  
 cloroplast rps4 gene for ribosomal protein S4'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62172 Strand -  
 Start 5461 End 6430  
 Name OJ990619\_37.9922.C5.o3.gp Method AAT/GAP  
 Start 5461 End 6430  
 GI 2409 1.R1084 Score 1911  
 Exons 5461..6430  
 GI Descrip. '128690/sp|P12126|NU3C\_ORYSA 2.0e-56 NADH-PLASTOQUINONE  
 OXIDOREDUCTASE CHAIN 3, CHLOROPLAST >gi\_66161\_pir\_DERZN3 NADH  
 dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - rice  
 chloroplast >gi\_11989\_emb\_CAA34001\_ (X15901) ndhC; NADH  
 dehydrogenase ND3 [Oryza sativa] >gi\_226610\_prf\_\_1603356AG NADH  
 dehydrogenase ND3 [Oryza sativa]'

Seq. No. 30138 Seq. ID OJ990619\_37.9922.C5  
 Gene No. 62173 Strand -  
 Start 9269 End 9785  
 Name OJ990619\_37.9922.C5.o4.gp Method AAT/GAP  
 Start 9269 End 9785  
 GI uc-osflM202083h12b1 Score 968  
 Exons 9269..9785  
 GI Descrip. '552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62174	Strand	-
Start	14343	End	14880
Name	OJ990619_37.9922.C5.o8.gp	Method	AAT/GAP
Start	14343	End	14880
GI	2653_1.R1084	Score	1052
Exons	14343..14880		
GI Descrip.	'11998/emb CAA33959  5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf_1603356AR ORF 85A [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62175	Strand	-
Start	23594	End	23761
Name	OJ990619_37.9922.C5.o11.gp	Method	AAT/GAP
Start	23594	End	23761
GI	LIB3431-017-P1-K1-H4	Score	283
Exons	23594..23761		
GI Descrip.	'1173189/sp P12340 RR12_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL PROTEIN S12 >gi_2119091_pir_S58629 ribosomal protein S12 - maize chloroplast >gi_342619 (M17841) ribosomal protein S12 [Zea mays] >gi_1216141_emb_CAA60309_ (X86563) ribosomal protein S12 [Zea mays]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62176	Strand	-
Start	27209	End	27660
Name	OJ990619_37.9922.C5.o14.gp	Method	AAT/GAP
Start	27209	End	27660
GI	uC-osflcyp003h11b1	Score	872
Exons	27209..27660		
GI Descrip.	'131332/sp P09449 PSBH_ORYSA 1.0e-09 PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72716_pir_F2RZ0P photosystem II phosphoprotein psbH - rice chloroplast >gi_11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII 10kDa phosphoprotein [Oryza sativa] >gi_226635_prf_1603356BJ photosystem II 10kD phosphoprotein [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62177	Strand	-
Start	27790	End	27953
Name	OJ990619_37.9922.C5.o15.gp	Method	AAT/GAP
Start	27790	End	27953
GI	uC-osflcyp084g07a1	Score	201
Exons	27790..27953		
GI Descrip.	'11957/emb X15901 CHOSXX 7.0e-38 Rice complete chloroplast genome'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62178	Strand	-
Start	31091	End	31656
Name	OJ990619_37.9922.C5.o17.gp	Method	AAT/GAP
Start	31091	End	31656
GI	2798177	Score	1010
Exons	31091..31656		
GI Descrip.	5881726/dbj BAA84417.1  3.0e-24 (AP000423) RNA polymerase alpha		



subunit [Arabidopsis thaliana]

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62179	Strand	-
Start	32439	End	32829
Name	OJ990619_37.9922.C5.o18.gp	Method	AAT/GAP
Start	32439	End	32829
GI	5003883	Score	782
Exons	32439..32829		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-166 Rice complete chloroplast genome		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62180	Strand	-
Start	33400	End	33953
Name	OJ990619_37.9922.C5.o19.gp	Method	AAT/GAP
Start	33400	End	33953
GI	481_1.R1084	Score	1022
Exons	33400..33953		
GI Descrip.	'132672/sp P12137 RK14_ORYSA 6.0e-57 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir_R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_(X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf__1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62181	Strand	-
Start	34292	End	34553
Name	OJ990619_37.9922.C5.o20.gp	Method	AAT/GAP
Start	34292	End	34553
GI	LIB3432-015-P1-K1-H8	Score	452
Exons	34292..34553		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o41.tm	Method	TBLASTX:Maize
Start	3	End	234
GI	none	Score	85
Exons	3..47, 3..47, 48..101, 50..100, 94..168, 97..156, 101..175, 143..208, 158..208, 173..232, 201..233, 202..234		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o28.tm	Method	TBLASTX:Maize
Start	235	End	621
GI	none	Score	291
Exons	235..255, 239..523, 258..383, 259..390, 278..526, 436..531, 522..611, 525..611, 526..621, 526..612		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o17.tm	Method	TBLASTX:Maize

Start	702	End	1244
GI	none	Score	97
Exons	702..785, 702..755, 703..783, 704..784, 730..786, 785..937, 786..1211, 787..1227, 789..1217, 1209..1244		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o18.tw	Method	TBLASTX:Wheat
Start	872	End	1272
GI	none	Score	101
Exons	872..910, 909..989, 921..989, 928..990, 934..990, 949..1272, 978..1271		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o8.tc	Method	TBLASTX:Cress
Start	999	End	1996
GI	none	Score	585
Exons	999..1628, 1000..1629, 1002..1628, 1009..1629, 1499..1633, 1647..1718, 1648..1695, 1861..1980, 1893..1982, 1900..1977, 1901..1996, 1901..1987		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o16.ts	Method	TBLASTX:Soybean
Start	1224	End	1727
GI	none	Score	369
Exons	1224..1619, 1224..1625, 1225..1626, 1225..1626, 1532..1627, 1671..1727		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o35.tm	Method	TBLASTX:Maize
Start	1505	End	1762
GI	none	Score	163
Exons	1505..1618, 1505..1618, 1506..1619, 1507..1647, 1613..1705, 1615..1728, 1617..1727, 1618..1740, 1619..1738, 1736..1762, 1737..1760, 1738..1761		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o13.tm	Method	TBLASTX:Maize
Start	2356	End	3347
GI	none	Score	78
Exons	2356..2469, 2388..2471, 2464..2625, 2466..2624, 2467..2637, 2617..2847, 2618..2848, 2621..2857, 2622..2858, 2854..2889, 2857..2976, 2858..2887, 2881..2973, 2882..2980, 2892..2984, 3056..3103, 3063..3161, 3064..3162, 3156..3203, 3157..3234, 3157..3234, 3158..3235, 3171..3239, 3232..3306, 3233..3343, 3233..3346, 3246..3347		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
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Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o29.ts	Method	TBLASTX:Soybean
Start	2709	End	2976
GI	none	Score	165
Exons	2709..2858, 2731..2892, 2748..2858, 2848..2898, 2854..2976, 2855..2971, 2880..2972, 2920..2973		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o30.tw	Method	TBLASTX:Wheat
Start	2733	End	2995
GI	none	Score	176
Exons	2733..2921, 2740..2850, 2741..2857, 2837..2890, 2856..2897, 2909..2995, 2921..2995		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o41.tc	Method	TBLASTX:Cress
Start	3236	End	3372
GI	none	Score	133
Exons	3236..3352, 3239..3370, 3246..3359, 3246..3371, 3349..3372		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	3962	End	6664
GI	none	Score	68
Exons	3962..4012, 3962..4012, 4015..4083, 4025..4054, 4080..4739, 4086..4721, 4719..4757, 4726..4935, 4730..4945, 4761..4952, 4762..4932, 4769..4933, 4918..5442, 4921..5304, 4922..5473, 4922..5452, 5456..5767, 5478..5978, 5494..5979, 5773..5979, 5976..6137, 5980..6138, 5981..6163, 5982..6164, 6173..6217, 6194..6247, 6194..6223, 6240..6266, 6244..6267, 6297..6359, 6299..6361, 6314..6361, 6328..6372, 6333..6455, 6366..6410, 6367..6414, 6382..6504, 6389..6490, 6489..6551, 6489..6548, 6490..6549, 6546..6572, 6551..6664, 6553..6663		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o11.tc	Method	TBLASTX:Cress
Start	4169	End	4646
GI	none	Score	463
Exons	4169..4636, 4170..4637, 4170..4646, 4300..4644		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o13.ts	Method	TBLASTX:Soybean
Start	4221	End	4671
GI	none	Score	383
Exons	4221..4655, 4221..4655, 4297..4671		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o6.tc	Method	TBLASTX:Cress
Start	4733	End	5450
GI	none	Score	146
Exons	4733..4921, 4758..4922, 4759..5025, 4912..4983, 4970..5026, 5019..5189, 5019..5096, 5020..5442, 5021..5449, 5136..5450		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o6.ts	Method	TBLASTX:Soybean
Start	4801	End	5485
GI	none	Score	778
Exons	4801..5442, 4802..5485, 4802..5449		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o3.tw	Method	TBLASTX:Wheat
Start	4888	End	5419
GI	none	Score	697
Exons	4888..5418, 4889..5419		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o20.ts	Method	TBLASTX:Soybean
Start	5487	End	5820
GI	none	Score	306
Exons	5487..5762, 5488..5820, 5490..5819		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o21.tc	Method	TBLASTX:Cress
Start	5529	End	5880
GI	none	Score	251
Exons	5529..5753, 5530..5880, 5530..5874, 5562..5876, 5813..5878		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o25.ts	Method	TBLASTX:Soybean
Start	6572	End	7241
GI	none	Score	137
Exons	6572..6676, 6573..6692, 6574..6660, 6612..6677, 6636..6722, 6644..6718, 6656..6730, 6658..6738, 6711..6845, 6729..6758, 6764..6862, 6780..6854, 6781..6894, 6872..6940, 6900..6932, 6942..6977, 6942..6977, 7071..7103, 7072..7101, 7159..7230, 7174..7233, 7176..7241		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o32.tc	Method	TBLASTX:Cress

Start	6593	End	7149
GI	none	Score	88
Exons	6593..6661, 6595..6660, 6612..6662, 6656..6718, 6656..6733, 6657..6728, 6714..6764, 6792..6854, 6793..6864, 6795..6833, 6841..7065, 6846..6947, 6847..6954, 6939..7004, 7072..7101, 7111..7149		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o15.tm	Method	TBLASTX:Maize
Start	6750	End	7381
GI	none	Score	470
Exons	6750..7082, 6751..7080, 7030..7083, 7077..7331, 7078..7284, 7316..7381		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	7516	End	9506
GI	none	Score	75
Exons	7516..7686, 7611..7850, 7676..7840, 7683..7844, 7771..7854, 7821..8165, 7842..8165, 8222..9505, 8223..8843, 8248..9180, 8468..9259, 8928..9506		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o27.tm	Method	TBLASTX:Maize
Start	7549	End	7933
GI	none	Score	131
Exons	7549..7686, 7550..7879, 7589..7879, 7771..7896, 7864..7932, 7886..7933		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	7611	End	8907
GI	none	Score	69
Exons	7611..8165, 7612..7686, 7694..8161, 7701..8165, 8221..8382, 8222..8905, 8223..8843, 8263..8907, 8581..8907		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o6.tm	Method	TBLASTX:Maize
Start	8037	End	9347
GI	none	Score	67
Exons	8037..8165, 8042..8164, 8126..8422, 8222..8818, 8223..8807, 8462..8818, 8819..9061, 8837..9328, 8928..9347		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o24.tw	Method	TBLASTX:Wheat

Start	8069	End	8449
GI	none	Score	44
Exons	8069..8164, 8070..8165, 8222..8449, 8223..8426		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o5.tw	Method	TBLASTX:Wheat
Start	8537	End	9232
GI	none	Score	237
Exons	8537..8818, 8538..8807, 8543..8812, 8837..8899, 8906..8944, 8955..9224, 8969..9232		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o9.ts	Method	TBLASTX:Soybean
Start	8908	End	9993
GI	none	Score	289
Exons	8908..9168, 8909..9259, 8909..9502, 8910..9503, 9937..9993		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o34.tm	Method	TBLASTX:Maize
Start	9347	End	9600
GI	none	Score	261
Exons	9347..9526, 9349..9558, 9549..9578, 9549..9578, 9583..9600		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o13.tw	Method	TBLASTX:Wheat
Start	9376	End	9808
GI	none	Score	215
Exons	9376..9525, 9378..9515, 9477..9587, 9522..9608, 9523..9597, 9586..9807, 9595..9774, 9599..9808		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o40.tm	Method	TBLASTX:Maize
Start	9601	End	9791
GI	none	Score	199
Exons	9601..9738, 9601..9738, 9602..9763, 9603..9740, 9731..9787, 9735..9791, 9737..9790		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o29.tm	Method	TBLASTX:Maize
Start	9933	End	10242
GI	none	Score	186
Exons	9933..10055, 9937..10056, 10032..10142, 10041..10097, 10043..10120, 10045..10140, 10046..10150, 10115..10240, 10117..10242, 10159..10242		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o4.tw	Method	TBLASTX:Wheat
Start	9976	End	10661
GI	none	Score	203
Exons	9976..10137, 9978..10121, 10095..10193, 10124..10186, 10149..10223, 10187..10615, 10207..10659, 10207..10659, 10236..10661		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o5.ts	Method	TBLASTX:Soybean
Start	10216	End	10919
GI	none	Score	1013
Exons	10216..10902, 10216..10917, 10239..10919, 10404..10919		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o14.tc	Method	TBLASTX:Cress
Start	10225	End	10701
GI	none	Score	41
Exons	10225..10257, 10259..10609, 10260..10682, 10261..10701, 10264..10701		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o9.tm	Method	TBLASTX:Maize
Start	10243	End	10989
GI	none	Score	935
Exons	10243..10941, 10254..10937, 10255..10983, 10939..10989, 10942..10989		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o23.tw	Method	TBLASTX:Wheat
Start	10662	End	10844
GI	none	Score	319
Exons	10662..10844, 10663..10842		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	10987	End	11739
GI	none	Score	926
Exons	10987..11733, 10988..11689, 10989..11717, 10993..11739		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o37.tm	Method	TBLASTX:Maize
Start	10992	End	11280

GI	none	Score	205
Exons	10992..11276, 10993..11280, 10997..11275		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o39.tc	Method	TBLASTX:Cress
Start	11225	End	11371
GI	none	Score	164
Exons	11225..11371, 11226..11360		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o20.tm	Method	TBLASTX:Maize
Start	11334	End	11870
GI	none	Score	310
Exons	11334..11693, 11343..11549, 11356..11703, 11359..11703, 11811..11870, 11815..11868		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o26.tc	Method	TBLASTX:Cress
Start	11454	End	11723
GI	none	Score	353
Exons	11454..11585, 11455..11721, 11455..11721, 11622..11723		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o8.tm	Method	TBLASTX:Maize
Start	12010	End	39254
GI	none	Score	52
Exons	12010..12042, 12012..12062, 12012..12047, 12037..12069, 12037..12069, 12055..12159, 12055..12141, 12069..12161, 12693..12755, 38479..38688, 38481..38729, 38484..38729, 38558..38731, 38665..38730, 38724..39254, 38733..39254		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o8.tw	Method	TBLASTX:Wheat
Start	12012	End	39226
GI	none	Score	66
Exons	12012..12062, 12012..12047, 12016..12048, 12037..12069, 12037..12069, 12069..12161, 12072..12137, 12073..12159, 38850..39224, 38850..39224, 38851..39225, 38851..39225, 38924..39226		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	12039	End	39378
GI	none	Score	39
Exons	12039..12068, 12056..12133, 12069..12131, 38160..38330,		



38161..38334, 38161..38355, 38237..38368, 38355..38471,  
 38356..38475, 38479..38688, 38481..39194, 38484..39194,  
 39181..39279, 39191..39286, 39199..39285, 39213..39287,  
 39288..39368, 39292..39378, 39293..39376

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o11.ts	Method	TBLASTX:Soybean
Start	12069	End	39188
GI	none	Score	96
Exons	12069..12152, 12071..12133, 12072..12134, 38611..38688, 38613..39188, 38616..39182		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o22.ts	Method	TBLASTX:Soybean
Start	12759	End	15250
GI	none	Score	140
Exons	12759..12980, 12818..12937, 13440..13577, 13442..13531, 13452..13538, 13453..13539, 13899..14060, 13904..14044, 14048..14251, 14056..14097, 14082..14297, 14082..14294, 14317..14379, 14320..14379, 14328..14384, 14406..14465, 14406..14483, 14779..14847, 14791..14850, 14793..14855, 14872..15246, 14876..15250, 14882..14986, 14902..15249		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o22.tm	Method	TBLASTX:Maize
Start	13394	End	13824
GI	none	Score	273
Exons	13394..13573, 13400..13573, 13576..13674, 13577..13690, 13671..13742, 13674..13742, 13676..13762, 13699..13743, 13710..13808, 13710..13808, 13732..13809, 13735..13824, 13739..13810		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o9.tc	Method	TBLASTX:Cress
Start	13905	End	15246
GI	none	Score	699
Exons	13905..14390, 13907..14395, 13908..14396, 14330..14398, 14377..14466, 14382..14465, 14794..14868, 14868..15227, 14868..15074, 14869..15246, 14873..15244		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o18.tm	Method	TBLASTX:Maize
Start	14063	End	14660
GI	none	Score	46
Exons	14063..14095, 14064..14096, 14074..14481, 14079..14483, 14082..14483, 14569..14592, 14570..14593, 14589..14636, 14590..14637, 14591..14635, 14628..14660, 14632..14652		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	15254	End	16790
GI	none	Score	332
Exons	15254..15571, 15274..15579, 15800..16009, 15806..16789, 15807..16790		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o35.tc	Method	TBLASTX:Cress
Start	15266	End	15483
GI	none	Score	228
Exons	15266..15481, 15268..15483		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o3.tc	Method	TBLASTX:Cress
Start	15484	End	16750
GI	none	Score	91
Exons	15484..15564, 15485..15556, 15786..16586, 15800..16009, 15807..16595, 16692..16748, 16692..16748, 16693..16749, 16700..16750		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o15.tw	Method	TBLASTX:Wheat
Start	15575	End	16001
GI	none	Score	39
Exons	15575..15601, 15576..15611, 15577..15615, 15605..15676, 15606..15677, 15606..15725, 15621..15746, 15661..15873, 15681..15872, 15773..15874, 15876..16001, 15879..15998, 15881..16000		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o19.tm	Method	TBLASTX:Maize
Start	15627	End	16107
GI	none	Score	58
Exons	15627..15665, 15629..15673, 15662..16009, 15663..16106, 15664..16107, 15667..16107		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o36.tm	Method	TBLASTX:Maize
Start	16107	End	16275
GI	none	Score	273
Exons	16107..16274, 16108..16275, 16110..16274		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
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Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o31.tw	Method	TBLASTX:Wheat
Start	16332	End	16449
GI	none	Score	205
Exons	16332..16448, 16333..16449, 16335..16448, 16336..16449		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o19.tw	Method	TBLASTX:Wheat
Start	16568	End	16895
GI	none	Score	377
Exons	16568..16831, 16575..16895, 16575..16895		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o29.tc	Method	TBLASTX:Cress
Start	17714	End	18051
GI	none	Score	273
Exons	17714..17959, 17717..17959, 17998..18051, 17999..18049		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o25.tm	Method	TBLASTX:Maize
Start	17768	End	18051
GI	none	Score	364
Exons	17768..17983, 17768..18022, 17982..18038, 17983..18051, 17984..18049, 17985..18050		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o7.tw	Method	TBLASTX:Wheat
Start	18003	End	18445
GI	none	Score	667
Exons	18003..18443, 18004..18429, 18005..18445		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o13.tc	Method	TBLASTX:Cress
Start	18090	End	18668
GI	none	Score	66
Exons	18090..18146, 18090..18143, 18091..18147, 18092..18148, 18149..18277, 18150..18278, 18151..18279, 18280..18561, 18283..18549, 18285..18557, 18285..18566, 18561..18593, 18565..18594, 18597..18668, 18601..18663		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o44.tm	Method	TBLASTX:Maize
Start	18510	End	18662
GI	none	Score	89

Exons	18510..18563, 18510..18557, 18511..18579, 18512..18571, 18558..18617, 18564..18617, 18565..18618, 18565..18618, 18618..18662, 18621..18662	
Seq. No.	30138	Seq. ID OJ990619_37.9922.C5
Gene No.	62182	Strand -
Start	44321	End 47473
Name	OJ990619_37.9922.C5.o20.tw	Method TBLASTX:Wheat
Start	18523	End 18924
GI	none	Score 86
Exons	18523..18597, 18524..18574, 18544..18759, 18555..18752, 18556..18759, 18739..18831, 18753..18899, 18778..18921, 18799..18924	
Seq. No.	30138	Seq. ID OJ990619_37.9922.C5
Gene No.	62182	Strand -
Start	44321	End 47473
Name	OJ990619_37.9922.C5.o43.tm	Method TBLASTX:Maize
Start	18716	End 19106
GI	none	Score 64
Exons	18716..18769, 18720..18776, 18721..18774, 18749..18841, 18781..18837, 18835..18876, 18848..18913, 18853..18915, 18856..18918, 18922..18999, 18923..18994, 19029..19106, 19031..19093	
Seq. No.	30138	Seq. ID OJ990619_37.9922.C5
Gene No.	62182	Strand -
Start	44321	End 47473
Name	OJ990619_37.9922.C5.o1.tm	Method TBLASTX:Maize
Start	19183	End 46288
GI	none	Score 81
Exons	19183..19230, 19184..19231, 44410..44880, 44411..45847, 44429..45841, 45375..45848, 45756..45857, 45903..45986, 45904..45987, 45925..45987, 45929..45988, 45981..46280, 45983..46288, 45986..46288	
Seq. No.	30138	Seq. ID OJ990619_37.9922.C5
Gene No.	62182	Strand -
Start	44321	End 47473
Name	OJ990619_37.9922.C5.o11.tw	Method TBLASTX:Wheat
Start	19286	End 19882
GI	none	Score 168
Exons	19286..19414, 19290..19415, 19293..19415, 19439..19480, 19473..19556, 19478..19555, 19530..19607, 19559..19609, 19560..19607, 19592..19717, 19593..19718, 19597..19716, 19605..19718, 19706..19882, 19711..19881	
Seq. No.	30138	Seq. ID OJ990619_37.9922.C5
Gene No.	62182	Strand -
Start	44321	End 47473
Name	OJ990619_37.9922.C5.o14.tm	Method TBLASTX:Maize
Start	19448	End 20191
GI	none	Score 139
Exons	19448..19606, 19473..19598, 19475..19624, 19480..19620, 19593..19679, 19594..19680, 19594..19677, 19673..19843, 19673..19843, 19675..19845, 19860..19892, 19861..19914, 19887..19913, 19895..19924, 19911..20018, 19912..19980,	

19976..20191, 19978..20184, 19979..20185

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o33.tc	Method	TBLASTX:Cress
Start	19775	End	20118
GI	none	Score	74
Exons	19775..19861, 19777..19842, 19917..19982, 19920..19982, 19992..20117, 19996..20118, 20003..20113		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o28.ts	Method	TBLASTX:Soybean
Start	19917	End	20132
GI	none	Score	230
Exons	19917..19982, 19976..20131, 19977..20132		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o22.tw	Method	TBLASTX:Wheat
Start	20653	End	21041
GI	none	Score	83
Exons	20653..20712, 20654..20731, 20695..20733, 20756..21004, 20760..21026, 20766..21041		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o23.tm	Method	TBLASTX:Maize
Start	20738	End	21053
GI	none	Score	380
Exons	20738..21046, 20739..21053, 20739..21053		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o26.ts	Method	TBLASTX:Soybean
Start	20812	End	22175
GI	none	Score	168
Exons	20812..20919, 20814..20966, 20814..20966, 21362..21526, 21372..21602, 21385..21615, 21399..21602, 21838..21894, 21865..21936, 21867..21929, 21873..21917, 21924..21986, 21996..22166, 21997..22167, 21998..22162, 21998..22171, 22014..22175		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o36.tc	Method	TBLASTX:Cress
Start	20815	End	20975
GI	none	Score	165
Exons	20815..20919, 20817..20975		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
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Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o32.tm	Method	TBLASTX:Maize
Start	21236	End	21573
GI	none	Score	94
Exons	21236..21319, 21326..21535, 21337..21573, 21369..21569, 21379..21573		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o30.tc	Method	TBLASTX:Cress
Start	21385	End	22318
GI	none	Score	280
Exons	21385..21603, 21402..21602, 21870..21917, 21894..21986, 21998..22162, 21998..22162, 22014..22175, 22220..22318		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o19.ts	Method	TBLASTX:Soybean
Start	22211	End	45212
GI	none	Score	178
Exons	22211..22297, 44810..44932, 44811..44933, 44945..45058, 44945..45058, 45057..45212, 45059..45211		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o34.tc	Method	TBLASTX:Cress
Start	22917	End	23494
GI	none	Score	37
Exons	22917..22946, 22983..23018, 22986..23015, 23008..23067, 23021..23068, 23104..23190, 23105..23179, 23196..23294, 23197..23340, 23279..23341, 23377..23421, 23380..23421, 23450..23494		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o23.ts	Method	TBLASTX:Soybean
Start	23013	End	24062
GI	none	Score	73
Exons	23013..23063, 23021..23071, 23097..23138, 23101..23178, 23102..23128, 23140..23184, 23174..23242, 23195..23239, 23196..23249, 23239..23304, 23245..23337, 23246..23338, 23279..23350, 23433..23498, 23433..23492, 23440..23493, 23546..23707, 23549..23725, 23551..23727, 23574..23708, 23710..23754, 23728..23754, 23905..24060, 23905..24060, 23913..24062		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o38.tm	Method	TBLASTX:Maize
Start	23404	End	23594
GI	none	Score	62

Exons 23404..23430, 23406..23432, 23431..23592, 23434..23592,  
23435..23593, 23436..23594

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o5.tm	Method	TBLASTX:Maize
Start	23594	End	44409
GI	none	Score	230
Exons	23594..23725, 23594..23725, 23595..23726, 23713..23757, 23719..23757, 23758..23781, 23759..23785, 23788..24597, 23794..24576, 44054..44371, 44055..44408, 44057..44407, 44101..44409		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o17.ts	Method	TBLASTX:Soybean
Start	24064	End	24554
GI	none	Score	374
Exons	24064..24492, 24074..24493, 24075..24512, 24321..24512, 24531..24554		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o18.tc	Method	TBLASTX:Cress
Start	24082	End	24512
GI	none	Score	351
Exons	24082..24492, 24083..24493, 24126..24512		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o24.tm	Method	TBLASTX:Maize
Start	24810	End	25100
GI	none	Score	167
Exons	24810..24926, 24810..24926, 24811..24930, 24811..24939, 24917..25099, 24930..25100		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o38.tc	Method	TBLASTX:Cress
Start	24979	End	25258
GI	none	Score	166
Exons	24979..25251, 24992..25258		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o10.tc	Method	TBLASTX:Cress
Start	25428	End	25985
GI	none	Score	90
Exons	25428..25559, 25435..25581, 25436..25603, 25441..25560, 25442..25582, 25565..25642, 25577..25981, 25580..25981, 25621..25977, 25770..25985		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o6.tw	Method	TBLASTX:Wheat
Start	25543	End	25974
GI	none	Score	691
Exons	25543..25587, 25544..25972, 25544..25972, 25621..25974		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o39.tm	Method	TBLASTX:Maize
Start	25580	End	25789
GI	none	Score	221
Exons	25580..25720, 25581..25718, 25724..25789		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o12.ts	Method	TBLASTX:Soybean
Start	25652	End	26096
GI	none	Score	694
Exons	25652..26092, 25653..25958, 25654..26091, 25995..26096		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o21.tm	Method	TBLASTX:Maize
Start	25791	End	26106
GI	none	Score	567
Exons	25791..25958, 25792..26106, 25793..26104		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o12.tc	Method	TBLASTX:Cress
Start	25988	End	26395
GI	none	Score	686
Exons	25988..26395, 25988..26395		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o4.tc	Method	TBLASTX:Cress
Start	26480	End	29127
GI	none	Score	73
Exons	26480..26542, 26483..26545, 26485..26544, 26485..26565, 26597..26677, 26597..26677, 26676..26798, 26677..26769, 26677..26805, 26833..27027, 26834..27037, 27038..27064, 27039..27077, 27071..27244, 27075..27176, 27076..27306, 27077..27319, 27284..27310, 27390..27416, 28247..28741, 28250..28897, 28252..28914, 28258..28896, 28950..29021, 28952..29020, 28955..29029, 29073..29126, 29073..29126, 29089..29127		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
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Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o18.ts	Method	TBLASTX:Soybean
Start	26766	End	27442
GI	none	Score	212
Exons	26766..26792, 26803..26982, 26825..26983, 26945..27013, 27019..27078, 27030..27068, 27071..27244, 27076..27306, 27076..27306, 27083..27319, 27284..27310, 27391..27441, 27392..27442		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o10.tm	Method	TBLASTX:Maize
Start	26849	End	27613
GI	none	Score	785
Exons	26849..27355, 26849..27244, 27000..27362, 27073..27360, 27261..27371, 27340..27417, 27351..27416, 27351..27422, 27392..27421, 27409..27459, 27409..27459, 27410..27460, 27450..27581, 27461..27493, 27465..27545, 27539..27580, 27547..27582, 27574..27609, 27587..27613		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o27.tw	Method	TBLASTX:Wheat
Start	26931	End	27180
GI	none	Score	62
Exons	26931..26963, 26931..27098, 26933..27100, 27073..27099, 27099..27167, 27100..27168, 27100..27180, 27101..27169		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o4.ts	Method	TBLASTX:Soybean
Start	27789	End	28989
GI	none	Score	57
Exons	27789..27842, 27849..27887, 28168..28212, 28169..28231, 28169..28228, 28208..28924, 28220..28741, 28258..28923, 28953..28982, 28954..28989		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o11.tm	Method	TBLASTX:Maize
Start	28253	End	28897
GI	none	Score	967
Exons	28253..28897, 28256..28723, 28315..28896		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o33.tm	Method	TBLASTX:Maize
Start	29063	End	29303
GI	none	Score	290
Exons	29063..29257, 29064..29255, 29259..29303, 29260..29301		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o8.ts	Method	TBLASTX:Soybean
Start	29212	End	30774
GI	none	Score	75
Exons	29212..29304, 29212..29331, 29307..29453, 29363..29452, 29469..29495, 29572..29619, 29578..29619, 29731..30186, 29749..30318, 29756..30295, 29756..30322, 29766..30320, 30226..30324, 30343..30423, 30366..30422, 30578..30754, 30580..30774		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o25.tc	Method	TBLASTX:Cress
Start	29748	End	29995
GI	none	Score	367
Exons	29748..29843, 29749..29994, 29762..29995		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o28.tc	Method	TBLASTX:Cress
Start	29996	End	30201
GI	none	Score	316
Exons	29996..30199, 29996..30199, 29998..30201		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o31.tc	Method	TBLASTX:Cress
Start	30601	End	31043
GI	none	Score	36
Exons	30601..30666, 30652..30690, 30657..30695, 30707..30751, 30794..31030, 30803..31030, 30849..31043, 30865..31023, 30901..31032, 30912..31043		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o7.ts	Method	TBLASTX:Soybean
Start	30794	End	31558
GI	none	Score	523
Exons	30794..31504, 30794..31558, 30801..31529, 30865..31551		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o16.tm	Method	TBLASTX:Maize
Start	30992	End	31466
GI	none	Score	662
Exons	30992..31465, 30993..31466		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473

Name	OJ990619_37.9922.C5.o17.tc	Method	TBLASTX:Cress
Start	31286	End	31873
GI	none	Score	295
Exons	31286..31558, 31290..31529, 31541..31600, 31573..31617, 31573..31617, 31600..31773, 31606..31740, 31614..31775, 31614..31784, 31643..31798, 31775..31873, 31776..31871, 31777..31872		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o42.tm	Method	TBLASTX:Maize
Start	31474	End	31736
GI	none	Score	51
Exons	31474..31548, 31493..31552, 31494..31532, 31495..31548, 31602..31730, 31615..31731, 31615..31731, 31617..31736, 31643..31735		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o26.tm	Method	TBLASTX:Maize
Start	31753	End	32040
GI	none	Score	188
Exons	31753..31866, 31754..31870, 31754..31870, 31868..32038, 31869..32039, 31870..32040, 31871..32038		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o30.ts	Method	TBLASTX:Soybean
Start	31828	End	32080
GI	none	Score	91
Exons	31828..31920, 31829..31999, 31838..31999, 31979..32080, 31980..32072, 31984..32073		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o3.tm	Method	TBLASTX:Maize
Start	32041	End	33558
GI	none	Score	38
Exons	32041..32073, 32042..32092, 32065..32148, 32085..32147, 32097..32174, 32104..32175, 32159..32176, 32193..32432, 32196..32417, 32215..32433, 32439..32717, 32440..32718, 32456..32719, 32460..32720, 32468..32518, 32492..32770, 32503..32781, 32725..32766, 32726..32764, 32728..32808, 32816..32860, 32821..32874, 32823..32873, 32892..32975, 32893..33540, 32893..33423, 32912..33556, 33123..33557, 33496..33558		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o31.ts	Method	TBLASTX:Soybean
Start	32525	End	32714
GI	none	Score	174

Exons 32525..32710, 32526..32714

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o9.tw	Method	TBLASTX:Wheat
Start	32816	End	33274
GI	none	Score	45
Exons	32816..32860, 32822..32860, 32823..32873, 32871..32891, 32892..32972, 32893..33267, 32912..33265, 32912..33274, 32997..33266		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o19.tc	Method	TBLASTX:Cress
Start	32905	End	33425
GI	none	Score	156
Exons	32905..33117, 32908..33078, 32912..33109, 33112..33321, 33125..33319, 33134..33328, 33139..33327, 33343..33384, 33344..33376, 33387..33425		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o3.ts	Method	TBLASTX:Soybean
Start	32905	End	38610
GI	none	Score	158
Exons	32905..33069, 32905..33117, 32912..33121, 32912..33139, 33112..33318, 33128..33319, 33132..33440, 33134..33355, 33353..33379, 33396..33461, 33447..33749, 33458..33748, 33567..33761, 33737..33838, 33744..33863, 33924..34157, 33940..34302, 33940..34335, 33954..34343, 33959..34345, 34206..34340, 35568..35708, 35569..35949, 35570..35938, 35953..36060, 36123..36257, 36124..36273, 36124..36273, 36183..36278, 36268..36297, 36878..37030, 36882..37115, 36892..37116, 36892..37116, 37120..37146, 37121..37144, 37341..37685, 37394..37684, 37395..37724, 37450..37689, 37630..37839, 37657..37854, 37757..37855, 37826..37972, 37841..37939, 37931..37975, 37933..37974, 37934..37975, 37975..38154, 37977..38153, 37978..38205, 38159..38236, 38160..38237, 38215..38610, 38229..38522		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o21.tw	Method	TBLASTX:Wheat
Start	33346	End	33710
GI	none	Score	60
Exons	33346..33381, 33347..33385, 33355..33423, 33365..33421, 33367..33423, 33432..33710, 33432..33707, 33449..33709		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o24.tc	Method	TBLASTX:Cress
Start	33451	End	33838

GI	none	Score	114
Exons	33451..33651, 33452..33655, 33459..33656, 33656..33703, 33656..33748, 33657..33749, 33724..33756, 33737..33838, 33744..33836		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o12.tm	Method	TBLASTX:Maize
Start	33599	End	35438
GI	none	Score	75
Exons	33599..33643, 33600..33644, 33644..34345, 33645..34340, 35382..35438		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o14.tw	Method	TBLASTX:Wheat
Start	33863	End	34254
GI	none	Score	80
Exons	33863..33916, 33865..33915, 33867..33920, 33870..34253, 33871..34254		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o20.tc	Method	TBLASTX:Cress
Start	33872	End	34345
GI	none	Score	48
Exons	33872..33904, 33978..34043, 33988..34032, 34023..34343, 34024..34299, 34034..34345, 34038..34337		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o25.tw	Method	TBLASTX:Wheat
Start	34286	End	42437
GI	none	Score	131
Exons	34286..34360, 34287..34361, 34331..34456, 34357..34461, 34361..34456, 34366..34491, 34475..34498, 34477..34500, 34499..34546, 34531..34611, 34542..34604, 34658..34690, 34659..34691, 42351..42437		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o30.tm	Method	TBLASTX:Maize
Start	34655	End	34978
GI	none	Score	352
Exons	34655..34903, 34656..34904, 34663..34974, 34666..34959, 34910..34978		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o22.tc	Method	TBLASTX:Cress
Start	34694	End	35928

GI	none	Score	49
Exons	34694..34735, 34702..34722, 34754..34816, 34772..34816, 34809..34898, 34810..34899, 34813..34905, 35026..35052, 35048..35092, 35201..35263, 35374..35415, 35385..35432, 35505..35747, 35512..35883, 35554..35928, 35555..35911		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o12.tw	Method	TBLASTX:Wheat
Start	34778	End	35412
GI	none	Score	202
Exons	34778..34936, 34779..34928, 34780..34956, 34903..34989, 34904..34990, 34913..34987, 34975..35088, 34984..35091, 34989..35096, 35098..35307, 35106..35285, 35165..35335, 35175..35345, 35189..35335, 35365..35412, 35379..35411		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o31.tm	Method	TBLASTX:Maize
Start	35019	End	35342
GI	none	Score	59
Exons	35019..35048, 35020..35055, 35020..35052, 35045..35086, 35045..35092, 35049..35147, 35050..35307, 35050..35220, 35177..35335, 35178..35285, 35181..35342, 35189..35323, 35275..35334		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	35482	End	37244
GI	none	Score	37
Exons	35482..35514, 35491..36063, 35493..35711, 35506..35904, 35513..36061, 35956..36063, 36016..36294, 36058..36297, 36277..36735, 36289..36735, 36683..36796, 36727..36801, 36744..36800, 36746..36850, 36815..37033, 36834..37148, 36843..37112, 36850..37149, 37079..37153, 37085..37153, 37114..37203, 37140..37199, 37142..37243, 37155..37244		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o2.tw	Method	TBLASTX:Wheat
Start	35964	End	36729
GI	none	Score	137
Exons	35964..36059, 35965..36297, 35965..36294, 36328..36726, 36334..36729		
Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o23.tc	Method	TBLASTX:Cress
Start	36159	End	36675
GI	none	Score	129
Exons	36159..36257, 36160..36270, 36167..36271, 36174..36272,		

36321..36428, 36343..36639, 36352..36675

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o27.ts	Method	TBLASTX:Soybean
Start	36350	End	36678
GI	none	Score	137
Exons	36350..36640, 36352..36678, 36364..36645		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o15.tc	Method	TBLASTX:Cress
Start	37017	End	37905
GI	none	Score	92
Exons	37017..37115, 37018..37116, 37020..37109, 37255..37305, 37256..37306, 37256..37333, 37257..37313, 37258..37323, 37307..37336, 37307..37336, 37393..37560, 37395..37562, 37395..37565, 37450..37566, 37576..37824, 37580..37819, 37588..37905, 37757..37825		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o7.tm	Method	TBLASTX:Maize
Start	37426	End	38255
GI	none	Score	1254
Exons	37426..38247, 37427..38248, 37450..38250, 37884..38255		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o17.tw	Method	TBLASTX:Wheat
Start	37566	End	37873
GI	none	Score	365
Exons	37566..37841, 37566..37871, 37567..37872, 37567..37872, 37757..37873		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o28.tw	Method	TBLASTX:Wheat
Start	39227	End	39454
GI	none	Score	104
Exons	39227..39286, 39229..39285, 39293..39454, 39308..39454		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o27.tc	Method	TBLASTX:Cress
Start	39608	End	40016
GI	none	Score	61
Exons	39608..39652, 39612..39647, 39639..39800, 39653..39802, 39654..39800, 39787..39882, 39797..39883, 39797..39910, 39798..39884, 39885..40016, 39887..39967, 39894..39974		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o32.ts	Method	TBLASTX:Soybean
Start	39964	End	40143
GI	none	Score	52
Exons	39964..39993, 39966..39989, 39999..40139, 40002..40139, 40003..40143		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o16.tw	Method	TBLASTX:Wheat
Start	41312	End	41797
GI	none	Score	92
Exons	41312..41389, 41312..41389, 41391..41447, 41391..41447, 41422..41502, 41427..41504, 41429..41506, 41438..41500, 41454..41519, 41464..41505, 41464..41532, 41465..41506, 41492..41512, 41517..41567, 41517..41558, 41518..41610, 41518..41568, 41557..41796, 41564..41797		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o14.ts	Method	TBLASTX:Soybean
Start	41593	End	42086
GI	none	Score	684
Exons	41593..42084, 41603..42001, 41605..42084, 41751..42086		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o24.ts	Method	TBLASTX:Soybean
Start	43292	End	43518
GI	none	Score	347
Exons	43292..43516, 43292..43516, 43294..43518, 43294..43518		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o15.ts	Method	TBLASTX:Soybean
Start	43519	End	43971
GI	none	Score	448
Exons	43519..43836, 43523..43837, 43824..43901, 43824..43898, 43841..43900, 43854..43970, 43856..43969, 43885..43971, 43885..43971		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o10.ts	Method	TBLASTX:Soybean
Start	44084	End	44808
GI	none	Score	59
Exons	44084..44131, 44087..44128, 44127..44357, 44131..44376, 44132..44371, 44382..44690, 44383..44628, 44429..44629, 44645..44689, 44681..44803, 44683..44808, 44683..44808		



Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o16.tc	Method	TBLASTX:Cress
Start	44096	End	44618
GI	none	Score	47
Exons	44096..44131, 44099..44128, 44127..44357, 44131..44376, 44132..44359, 44381..44503, 44382..44495, 44383..44517, 44383..44517, 44495..44521, 44511..44618, 44513..44605		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o23.gp	Method	AAT/GAP
Start	44321	End	46290
GI	183_5.R1084	Score	2766
Exons	44321..44705, 45246..46290		
GI Descrip.	'133999/sp P05424 RR7_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir_R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942_(X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919_(X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf_1603356CH ribosomal protein S7 [Oryza sativa]'		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o26.tw	Method	TBLASTX:Wheat
Start	44485	End	44704
GI	none	Score	99
Exons	44485..44595, 44488..44568, 44489..44572, 44552..44683, 44553..44666, 44554..44667, 44671..44703, 44672..44704		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o37.tc	Method	TBLASTX:Cress
Start	44665	End	44825
GI	none	Score	194
Exons	44665..44820, 44676..44786, 44683..44820, 44685..44825		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o10.tw	Method	TBLASTX:Wheat
Start	45080	End	45490
GI	none	Score	42
Exons	45080..45139, 45131..45490, 45146..45487		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o7.tc	Method	TBLASTX:Cress
Start	45099	End	45848
GI	none	Score	365
Exons	45099..45320, 45099..45587, 45100..45621, 45101..45577, 45101..45622, 45572..45688, 45576..45689, 45577..45603,		

45580..45696, 45581..45697, 45633..45701, 45665..45739,  
 45670..45771, 45703..45750, 45740..45814, 45756..45824,  
 45766..45810, 45800..45841, 45806..45847, 45828..45848

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o21.ts	Method	TBLASTX:Soybean
Start	45370	End	46483
GI	none	Score	308
Exons	45370..45570, 45371..45577, 45554..45676, 45586..45681, 45587..45676, 45633..45683, 45640..45687, 45703..45738, 45707..45739, 45739..45780, 45746..45781, 45769..45831, 45904..45969, 45906..45971, 45964..45990, 45965..45991, 45998..46102, 46025..46102, 46110..46202, 46129..46185, 46217..46255, 46316..46474, 46317..46472, 46318..46482, 46343..46483		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o40.tc	Method	TBLASTX:Cress
Start	45908	End	46129
GI	none	Score	40
Exons	45908..45943, 45933..45974, 45945..45977, 45967..46104, 45968..46111, 45969..46100, 45970..46101, 46106..46129		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o5.tc	Method	TBLASTX:Cress
Start	46130	End	47473
GI	none	Score	110
Exons	46130..46225, 46130..46216, 46223..46249, 46223..46249, 46225..46254, 46316..46462, 46323..46454, 46357..46455, 46419..46490, 46509..46586, 46510..46590, 46510..46590, 46511..46591, 46583..46654, 46586..46654, 46587..46655, 46610..46717, 46656..46718, 46714..46845, 46734..46850, 46736..46843, 46740..46898, 46790..46897, 46858..46902, 46916..46963, 46917..47093, 46918..47100, 47001..47102, 47003..47101, 47127..47186, 47129..47188, 47131..47202, 47140..47193, 47195..47311, 47196..47279, 47197..47313, 47281..47406, 47290..47397, 47309..47404, 47319..47411, 47405..47431, 47405..47431, 47409..47444, 47433..47471, 47435..47473, 47435..47473		

Seq. No.	30138	Seq. ID	OJ990619_37.9922.C5
Gene No.	62182	Strand	-
Start	44321	End	47473
Name	OJ990619_37.9922.C5.o29.tw	Method	TBLASTX:Wheat
Start	47215	End	47473
GI	none	Score	76
Exons	47215..47310, 47215..47292, 47281..47352, 47290..47352, 47322..47363, 47326..47412, 47348..47413, 47399..47473, 47415..47471, 47416..47472, 47417..47473		

Seq. No.	30139	Seq. ID	OJ990619_37.9922.C6
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Gene No.	62183	Strand	+
Start	1	End	169
Name	OJ990619_37.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	1	End	169
GI	none	Score	228
Exons	1..168, 2..40, 3..167, 110..169		

Seq. No.	30139	Seq. ID	OJ990619_37.9922.C6
Gene No.	62183	Strand	+
Start	1	End	169
Name	OJ990619_37.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	18	End	169
GI	none	Score	146
Exons	18..167, 18..167, 19..168, 86..169		

Seq. No.	30139	Seq. ID	OJ990619_37.9922.C6
Gene No.	62184	Strand	+
Start	75	End	169
Name	OJ990619_37.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	75	End	169
GI	none	Score	150
Exons	75..167, 76..168, 89..169		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62185	Strand	+
Start	1	End	244
Name	OJ990619_37.9922.C7.o1.gp	Method	AAT/GAP
Start	1	End	244
GI	1629_2.R1084	Score	462
Exons	1..244		
GI Descrip.	'1245217/gb U49840 OSU49840 1.0e-170 Oryza sativa subsp. indica large ribosomal RNA gene, chloroplast gene encoding chloroplast rRNA, partial sequence'		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	1	End	245
GI	none	Score	198
Exons	1..123, 3..113, 98..172, 100..243, 104..244, 114..245		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	245
GI	none	Score	186
Exons	1..108, 2..112, 3..113, 3..116, 98..172, 104..220, 114..230, 118..237, 173..244, 174..245		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	7	End	1146
GI	none	Score	429

Exons 7..60, 687..980, 688..981, 731..982, 782..826, 783..827,  
1051..1131, 1052..1132, 1053..1145, 1054..1146

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	70	End	245
GI	none	Score	284
Exons	70..162, 71..244, 72..245		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o3.tc	Method	TBLASTX:Cress
Start	467	End	586
GI	none	Score	180
Exons	467..586, 467..580		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o2.gp	Method	AAT/GAP
Start	657	End	1227
GI	306_9.R1084	Score	860
Exons	657..981, 1052..1227		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	663	End	981
GI	none	Score	559
Exons	663..980, 664..981, 664..981, 782..826, 783..827		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o2.tc	Method	TBLASTX:Cress
Start	882	End	1227
GI	none	Score	36
Exons	882..911, 903..968, 918..980, 934..981, 1053..1226, 1053..1226, 1054..1227		

Seq. No.	30140	Seq. ID	OJ990619_37.9922.C7
Gene No.	62186	Strand	+
Start	657	End	1227
Name	OJ990619_37.9922.C7.o3.tm	Method	TBLASTX:Maize
Start	1052	End	1203
GI	none	Score	152
Exons	1052..1135, 1053..1202, 1053..1202, 1054..1203		

Seq. No.	30141	Seq. ID	OJ990619_37.9922.C9
Gene No.	62187	Strand	-
Start	1	End	175

Name	OJ990619_37.9922.C9.o1.gp	Method	AAT/GAP
Start	1	End	175
GI	306 9.R1084	Score	321
Exons	1..175		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	30141	Seq. ID	OJ990619_37.9922.C9
Gene No.	62187	Strand	-
Start	1	End	175
Name	OJ990619_37.9922.C9.o1.tc	Method	TBLASTX:Cress
Start	2	End	175
GI	none	Score	120
Exons	2..106, 3..119, 3..104, 108..173, 108..173, 109..174, 116..175		

Seq. No.	30142	Seq. ID	OJ990619_37.9922.C10
Gene No.	62188	Strand	+
Start	1	End	134
Name	OJ990619_37.9922.C10.o1.gp	Method	AAT/GAP
Start	1	End	134
GI	2669 1.R1084	Score	259
Exons	1..134		
GI Descrip.	'3914470/sp Q40070 PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]'		

Seq. No.	30142	Seq. ID	OJ990619_37.9922.C10
Gene No.	62188	Strand	+
Start	1	End	134
Name	OJ990619_37.9922.C10.o1.tw	Method	TBLASTX:Wheat
Start	1	End	134
GI	none	Score	206
Exons	1..129, 2..124, 107..133, 113..133, 114..134, 114..134		

Seq. No.	30142	Seq. ID	OJ990619_37.9922.C10
Gene No.	62188	Strand	+
Start	1	End	134
Name	OJ990619_37.9922.C10.o1.tc	Method	TBLASTX:Cress
Start	1	End	134
GI	none	Score	195
Exons	1..132, 2..133, 3..134		

Seq. No.	30142	Seq. ID	OJ990619_37.9922.C10
Gene No.	62188	Strand	+
Start	1	End	134
Name	OJ990619_37.9922.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	128
GI	none	Score	127
Exons	1..78, 2..82, 63..128, 80..127		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62189	Strand	+
Start	145	End	2825
Name	OJ990619_36.9922.C1.o1.gs	Method	GENSCAN
Start	145	End	2825
GI	none	Score	.87
Exons	145..278, 372..473, 1268..1312, 1767..1907, 2274..2375,		

2727..2825

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62189	Strand	+
Start	145	End	2825
Name	OJ990619_36.9922.C1.o1.np	Method	AAT/NAP
Start	145	End	2825
GI	2832632	Score	559
Exons	145..296, 348..473, 1268..1312, 1767..1907, 2274..2375, 2727..2825		
GI Descrip.	(AL021711) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62190	Strand	+
Start	3804	End	6768
Name	OJ990619_36.9922.C1.o2.gs	Method	GENSCAN
Start	3804	End	6499
GI	none	Score	.9
Exons	3804..4180, 4302..4399, 4509..4574, 6357..6499		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62190	Strand	+
Start	3804	End	6768
Name	OJ990619_36.9922.C1.o2.np	Method	AAT/NAP
Start	3875	End	6496
GI	2246378	Score	670
Exons	3875..4180, 4302..4399, 4509..4574, 6357..6496		
GI Descrip.	(Z86094) plastid protein [Arabidopsis thaliana]		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62190	Strand	+
Start	3804	End	6768
Name	OJ990619_36.9922.C1.o2.gp	Method	AAT/GAP
Start	4041	End	6768
GI	39388_1.R1084	Score	1264
Exons	4041..4180, 4302..4400, 4509..4574, 6357..6768		
GI Descrip.	'2440029/emb CAA75116  7.0e-45 (Y14851) DAL1 protein [Arabidopsis thaliana] >gi_2440031_emb_CAA75115_ (Y14850) DAL1 protein [Arabidopsis thaliana]'		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62191	Strand	-
Start	3059	End	3269
Name	OJ990619_36.9922.C1.o1.gp	Method	AAT/GAP
Start	3059	End	3269
GI	none	Score	403
Exons	3059..3269		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62192	Strand	-
Start	6975	End	8372
Name	OJ990619_36.9922.C1.o3.gs	Method	GENSCAN
Start	6975	End	8372
GI	none	Score	.66
Exons	6975..7434, 7470..7758, 8016..8259, 8298..8372		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
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Gene No.	62192	Strand	-
Start	6975	End	8372
Name	OJ990619_36.9922.C1.o3.np	Method	AAT/NAP
Start	6978	End	7696
GI	5734618	Score	940
Exons	6978..7696		
GI Descrip.	(AP000391) Similar to Arabidopsis thaliana chromosome II BAC F5H14 genomic sequence; unknown protein (AC006234) [Oryza sativa]		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o3.tm	Method	TBLASTX:Maize
Start	3	End	2375
GI	none	Score	53
Exons	3..71, 8..46, 138..317, 142..324, 339..473, 367..474, 369..479, 371..475, 1267..1308, 1268..1339, 1755..1907, 1763..1924, 1766..1915, 1976..2071, 1986..2087, 1988..2068, 2268..2375, 2273..2368		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o2.ts	Method	TBLASTX:Soybean
Start	384	End	2819
GI	none	Score	112
Exons	384..479, 1268..1339, 1749..1907, 1769..1924, 1775..1915, 1986..2087, 1987..2082, 1988..2083, 2268..2375, 2276..2383, 2279..2383, 2703..2819		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o2.tc	Method	TBLASTX:Cress
Start	1755	End	2804
GI	none	Score	64
Exons	1755..1817, 1800..1907, 1835..1894, 1986..2087, 1988..2068, 2079..2114, 2268..2375, 2273..2386, 2703..2804, 2723..2776		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	3926	End	6502
GI	none	Score	95
Exons	3926..3988, 3927..4004, 4031..4180, 4032..4178, 4040..4180, 4290..4400, 4300..4404, 4324..4404, 4502..4573, 4507..4572, 4508..4618, 6350..6502, 6355..6498		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	4031	End	6502
GI	none	Score	263
Exons	4031..4180, 4032..4178, 4290..4403, 4300..4404, 4502..4573,		

4507..4572, 6348..6461, 6350..6502, 6355..6498

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	4031	End	6498
GI	none	Score	247
Exons	4031..4180, 4032..4178, 4046..4180, 4290..4400, 4300..4404, 4502..4573, 4507..4587, 4507..4572, 4508..4576, 6350..6442, 6355..6498		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o2.tw	Method	TBLASTX:Wheat
Start	4318	End	6501
GI	none	Score	145
Exons	4318..4404, 4324..4398, 4356..4412, 4376..4399, 4502..4573, 4506..4586, 4506..4586, 4507..4587, 4514..4618, 6350..6493, 6352..6501, 6355..6492		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	6993	End	7496
GI	none	Score	39
Exons	6993..7136, 6994..7137, 7134..7319, 7195..7296, 7336..7494, 7338..7496, 7338..7493		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o3.ts	Method	TBLASTX:Soybean
Start	7167	End	7485
GI	none	Score	141
Exons	7167..7484, 7195..7485		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	7242	End	7493
GI	none	Score	131
Exons	7242..7382, 7243..7383, 7371..7493, 7395..7493		

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o3.gp	Method	AAT/GAP
Start	8875	End	10742
GI	23464_1.R1084	Score	1206
Exons	8875..9278, 9363..9429, 9664..9712, 9799..9855, 10368..10439, 10686..10742		
GI Descrip.	'4165510/emb CAA22249.1  7.0e-24 (AL034356) predicted using hexExon; L7610.8, DNAJ-like protein, len:232 aa; Similarity to		



prokaryotic DNAJ proteins and eukaryotic DNAJ-like chaperones.  
 E.coli DNAJ (SW:DNAJ\_ECOLI) BLAST score: 405 P: 5.3e-38, 37%  
 identity in'

Seq. No.	30143	Seq. ID	OJ990619_36.9922.C1
Gene No.	62193	Strand	-
Start	9179	End	10807
Name	OJ990619_36.9922.C1.o4.gs	Method	GENSCAN
Start	9179	End	10807
GI	none	Score	.95
Exons	9179..9278, 9363..9429, 9664..9712, 10368..10439, 10778..10807		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62194	Strand	+
Start	2557	End	5816
Name	OJ990619_36.9922.C3.o1.np	Method	AAT/NAP
Start	2557	End	5816
GI	6573149	Score	326
Exons	2557..2818, 3268..3479, 4797..4880, 5748..5816		
GI Descrip.	(AF201895) growth-regulating factor 1 [Oryza sativa]		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62194	Strand	+
Start	2557	End	5816
Name	OJ990619_36.9922.C3.o2.gs	Method	GENSCAN
Start	3207	End	5238
GI	none	Score	.68
Exons	3207..3255, 3257..3587, 4644..5024, 5056..5238		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62195	Strand	-
Start	1563	End	3444
Name	OJ990619_36.9922.C3.o1.gs	Method	GENSCAN
Start	1563	End	2835
GI	none	Score	.84
Exons	1563..1664, 2365..2835		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62195	Strand	-
Start	1563	End	3444
Name	OJ990619_36.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	2677	End	3427
GI	none	Score	61
Exons	2677..2736, 3276..3419, 3277..3420, 3290..3427		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62195	Strand	-
Start	1563	End	3444
Name	OJ990619_36.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	3250	End	3444
GI	none	Score	353
Exons	3250..3444, 3251..3430, 3252..3443		

Seq. No.	30144	Seq. ID	OJ990619_36.9922.C3
Gene No.	62195	Strand	-
Start	1563	End	3444
Name	OJ990619_36.9922.C3.o1.tc	Method	TBLASTX:Cress

Start 3286  
 GI none  
 Exons 3286..3429, 3288..3419

End 3429  
 Score 207

Seq. No. 30144  
 Gene No. 62196  
 Start 4799  
 Name OJ990619\_36.9922.C3.o2.tm  
 Start 4799  
 GI none  
 Exons 4799..4843, 4799..4843, 4800..4850, 4801..4851, 4857..4898, 4858..4926, 4917..5030, 4919..5026, 4936..5076, 4938..5075, 4939..5076

Seq. ID OJ990619\_36.9922.C3  
 Strand  
 End 5076  
 Method TBLASTX:Maize  
 End 5076  
 Score 64

Seq. No. 30145  
 Gene No. 62197  
 Start 340  
 Name OJ990619\_36.9922.C4.o1.tm  
 Start 330  
 GI none  
 Exons 330..404, 340..423, 462..554, 465..557, 466..558, 652..705, 653..718, 654..713, 793..897, 818..901

Seq. ID OJ990619\_36.9922.C4  
 Strand +  
 End 1065  
 Method TBLASTX:Maize  
 End 901  
 Score 72

Seq. No. 30145  
 Gene No. 62197  
 Start 340  
 Name OJ990619\_36.9922.C4.o1.gp  
 Start 340  
 GI 73225\_1.R1084  
 Exons 340..390, 468..555, 651..715, 818..896  
 GI Descrip. '118719/sp|P08622|DNAJ\_ECOLI 2.0e-37 DNAJ PROTEIN  
 >gi\_72228\_pir\_HHECDJ heat shock protein dnaJ - Escherichia coli  
 >gi\_145769 (M12565) heat shock protein dnaJ [Escherichia coli]  
 >gi\_216441\_dbj\_BAA01292 (D10483) DnaJ [Escherichia coli]  
 >gi\_1786197 (AE000112) chaperone with DnaK; heat shock protein [Escherichia coli]'

Seq. ID OJ990619\_36.9922.C4  
 Strand +  
 End 1065  
 Method AAT/GAP  
 End 896  
 Score 458

Seq. No. 30145  
 Gene No. 62197  
 Start 340  
 Name OJ990619\_36.9922.C4.o1.np  
 Start 469  
 GI 4827026  
 Exons 469..555, 651..715, 818..875, 1043..1065  
 GI Descrip. tumorous imaginal discs (Drosophila) homolog gi|3372677 (AF061749) tumorous imaginal discs protein Tid56 homolog [Homo sapiens]

Seq. ID OJ990619\_36.9922.C4  
 Strand +  
 End 1065  
 Method AAT/NAP  
 End 1065  
 Score 43

Seq. No. 30146  
 Gene No. 62198  
 Start 4983  
 Name OJ990619\_36.9922.C5.o2.gp  
 Start 4983  
 GI 73918\_1.R1084  
 Exons 4983..5094  
 GI Descrip. '2280503/dbj|AB005781|AB005781 2.0e-26 Arabidopsis thaliana tRNA-Asp gene'

Seq. ID OJ990619\_36.9922.C5  
 Strand +  
 End 5094  
 Method AAT/GAP  
 End 5094  
 Score 117

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62199	Strand	+
Start	5539	End	6656
Name	OJ990619_36.9922.C5.o2.gs	Method	GENSCAN
Start	5539	End	6656
GI	none	Score	.82
Exons	5539..5638, 6052..6167, 6261..6386, 6474..6656		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62200	Strand	+
Start	7109	End	15459
Name	OJ990619_36.9922.C5.o3.gs	Method	GENSCAN
Start	7109	End	15363
GI	none	Score	.43
Exons	7109..7161, 7468..7674, 7732..7955, 9334..9410, 10700..10856, 11845..12831, 13389..13544, 13721..15363		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62200	Strand	+
Start	7109	End	15459
Name	OJ990619_36.9922.C5.o2.np	Method	AAT/NAP
Start	12585	End	15459
GI	4544450	Score	668
Exons	12585..12614, 14052..15459		
GI Descrip.	(AC006592) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62201	Strand	+
Start	17003	End	27566
Name	OJ990619_36.9922.C5.o5.gs	Method	GENSCAN
Start	17003	End	27566
GI	none	Score	.57
Exons	17003..17060, 18266..18337, 19234..19359, 20129..20295, 20695..20716, 20925..21069, 21925..22210, 22759..22867, 23190..23305, 23415..23534, 24365..24598, 25242..25302, 26013..26109, 26931..27010, 27130..27566		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62201	Strand	+
Start	17003	End	27566
Name	OJ990619_36.9922.C5.o4.np	Method	AAT/NAP
Start	26490	End	27554
GI	4581122	Score	380
Exons	26490..26515, 26931..27010, 27130..27554		
GI Descrip.	(AC005825) putative gluconokinase [Arabidopsis thaliana]		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62202	Strand	+
Start	31465	End	34127
Name	OJ990619_36.9922.C5.o7.gs	Method	GENSCAN
Start	31465	End	34127
GI	none	Score	.74
Exons	31465..31597, 33083..33227, 34006..34063, 34122..34127		
Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62203	Strand	+

Start 37281  
 Name OJ990619\_36.9922.C5.o8.gs  
 Start 37281  
 GI none  
 Exons 37281..37754

End 37754  
 Method GENSCAN  
 End 37754  
 Score .62

Seq. No. 30146  
 Gene No. 62204  
 Start 38308  
 Name OJ990619\_36.9922.C5.o9.gs  
 Start 38308  
 GI none  
 Exons 38308..38315, 38763..38833, 38864..39156

Seq. ID OJ990619\_36.9922.C5  
 Strand +  
 End 39156  
 Method GENSCAN  
 End 39156  
 Score .82

Seq. No. 30146  
 Gene No. 62205  
 Start 40080  
 Name OJ990619\_36.9922.C5.o6.gp  
 Start 40080  
 GI 17369\_2.R1084  
 Exons 40080..40441, 40518..40873  
 GI Descrip. '2129742/pir||S59544 5.0e-23 stress-induced protein OZ11 precursor - Arabidopsis thaliana >gi\_790583 (U20347) mRNA corresponding to this gene accumulates in response to ozone stress and pathogen (bacterial) infection; putative pathogenesis-related protein [Arabidopsis thaliana] >gi\_2252869 (AF013294) No definition line found [Arabidopsis thaliana]'

Seq. ID OJ990619\_36.9922.C5  
 Strand +  
 End 40873  
 Method AAT/GAP  
 End 40873  
 Score 1298

Seq. No. 30146  
 Gene No. 62205  
 Start 40080  
 Name OJ990619\_36.9922.C5.o5.np  
 Start 40332  
 GI 6715639  
 Exons 40332..40479, 40514..40660  
 GI Descrip. (AC007323) T25K16.16 [Arabidopsis thaliana]

Seq. ID OJ990619\_36.9922.C5  
 Strand +  
 End 40873  
 Method AAT/NAP  
 End 40660  
 Score 242

Seq. No. 30146  
 Gene No. 62206  
 Start 1  
 Name OJ990619\_36.9922.C5.o1.np  
 Start 1  
 GI 1762130  
 Exons 1..335, 504..599, 706..843, 1274..1399, 1495..1713  
 GI Descrip. (U46136) chaperonin-60 beta subunit [Solanum tuberosum]

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 3697  
 Method AAT/NAP  
 End 1713  
 Score 908

Seq. No. 30146  
 Gene No. 62206  
 Start 1  
 Name OJ990619\_36.9922.C5.o1.gs  
 Start 93  
 GI none  
 Exons 93..335, 504..599, 706..843, 1274..1399, 1495..1719, 2748..2811, 3678..3697

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 3697  
 Method GENSCAN  
 End 3697  
 Score .73

Seq. No. 30146  
 Gene No. 62206

Seq. ID OJ990619\_36.9922.C5  
 Strand -

Start	1	End	3697
Name	OJ990619_36.9922.C5.o1.gp	Method	AAT/GAP
Start	705	End	2818
GI	24690_1.R1084	Score	1031
Exons	705..843, 1274..1399, 1495..1719, 2748..2818		
GI Descrip.	'81601/pir  JT0901 5.0e-52 chaperonin 60 beta - Arabidopsis thaliana'		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62207	Strand	-
Start	15541	End	17061
Name	OJ990619_36.9922.C5.o4.gs	Method	GENSCAN
Start	15541	End	16595
GI	none	Score	.99
Exons	15541..15922, 16507..16595		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62207	Strand	-
Start	15541	End	17061
Name	OJ990619_36.9922.C5.o3.gp	Method	AAT/GAP
Start	15882	End	17061
GI	2442481	Score	514
Exons	15882..15922, 16507..16659, 16961..17061		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62208	Strand	-
Start	18795	End	21221
Name	OJ990619_36.9922.C5.o4.gp	Method	AAT/GAP
Start	18795	End	21221
GI	17707_1.R1084	Score	1234
Exons	18795..19110, 19229..19375, 19494..19593, 21100..21221		
GI Descrip.	'2129742/pir  S59544 1.0e-22 stress-induced protein OZI1 precursor - Arabidopsis thaliana >gi_790583 (U20347) mRNA corresponding to this gene accumulates in response to ozone stress and pathogen (bacterial) infection; putative pathogenesis-related protein [Arabidopsis thaliana] >gi_2252869 (AF013294) No definition line found [Arabidopsis thaliana]'		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62208	Strand	-
Start	18795	End	21221
Name	OJ990619_36.9922.C5.o3.np	Method	AAT/NAP
Start	19233	End	19597
GI	6715639	Score	271
Exons	19233..19392, 19469..19597		
GI Descrip.	(AC007323) T25K16.16 [Arabidopsis thaliana]		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62209	Strand	-
Start	27893	End	30365
Name	OJ990619_36.9922.C5.o6.gs	Method	GENSCAN
Start	27893	End	30279
GI	none	Score	.83
Exons	27893..28211, 29325..29352, 30066..30279		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62209	Strand	-

Start 27893  
 Name OJ990619\_36.9922.C5.o5.gp  
 Start 28809  
 GI none  
 Exons 28809..29010, 30184..30365

End 30365  
 Method AAT/GAP  
 End 30365  
 Score 728

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o3.tm  
 Start 33  
 GI none  
 Exons 33..335, 40..204, 80..337, 87..347, 502..609, 527..610, 531..611

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Maize  
 End 611  
 Score 173

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o3.ts  
 Start 66  
 GI none  
 Exons 66..338, 87..335, 535..600, 540..602, 546..602, 703..846, 704..844, 706..846, 1271..1441, 1272..1445, 1495..1545

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Soybean  
 End 1545  
 Score 191

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o1.tc  
 Start 86  
 GI none  
 Exons 86..337, 87..335, 93..338, 546..602, 556..600, 703..846, 704..844, 1271..1441, 1272..1445, 1465..1581, 1639..1713

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Cress  
 End 1713  
 Score 178

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o9.tm  
 Start 703  
 GI none  
 Exons 703..846, 704..844, 749..853, 1271..1441, 1272..1436, 1465..1590, 1471..1587, 1657..1728, 1658..1729

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Maize  
 End 1729  
 Score 199

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o1.ts  
 Start 5667  
 GI none  
 Exons 5667..5708, 5811..5927, 5833..5928, 5836..5934, 5840..5941, 6050..6166, 6051..6170, 6260..6415, 6261..6386, 6474..6524, 6524..6643, 6525..6644

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Soybean  
 End 6644  
 Score 57

Seq. No. 30146  
 Gene No. 62210  
 Start 40501  
 Name OJ990619\_36.9922.C5.o2.tm  
 Start 5672  
 GI none

Seq. ID OJ990619\_36.9922.C5  
 Strand -  
 End 44270  
 Method TBLASTX:Maize  
 End 6638  
 Score 50

Exons 5672..5710, 5673..5708, 5811..5927, 5832..5927, 5833..5928, 6050..6154, 6050..6166, 6051..6170, 6257..6307, 6260..6415, 6261..6386, 6474..6524, 6524..6637, 6525..6638

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o3.tc Method TBLASTX:Cress  
Start 5814 End 6617  
GI none Score 124  
Exons 5814..5927, 5833..5928, 5836..5934, 6050..6166, 6051..6170, 6261..6386, 6266..6397, 6528..6617

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o1.tw Method TBLASTX:Wheat  
Start 5826 End 6617  
GI none Score 124  
Exons 5826..5927, 5833..5928, 6050..6166, 6051..6170, 6261..6386, 6266..6397, 6528..6617

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o4.tc Method TBLASTX:Cress  
Start 14176 End 14979  
GI none Score 58  
Exons 14176..14262, 14326..14484, 14338..14478, 14485..14517, 14583..14906, 14584..14877, 14593..14889, 14875..14979

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o3.tw Method TBLASTX:Wheat  
Start 14329 End 15006  
GI none Score 96  
Exons 14329..14490, 14394..14486, 14583..14966, 14584..14985, 14842..14958, 14986..15006

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o6.tm Method TBLASTX:Maize  
Start 14716 End 15090  
GI none Score 230  
Exons 14716..14985, 14719..14982, 14808..14984, 14986..15090

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5  
Gene No. 62210 Strand -  
Start 40501 End 44270  
Name OJ990619\_36.9922.C5.o5.ts Method TBLASTX:Soybean  
Start 14749 End 15102  
GI none Score 179  
Exons 14749..14979, 14754..14978, 14986..15102

Seq. No. 30146 Seq. ID OJ990619\_36.9922.C5

Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o2.tw	Method	TBLASTX:Wheat
Start	19191	End	40648
GI	none	Score	154
Exons	19191..19376, 19193..19375, 19224..19376, 19240..19377, 19490..19591, 19492..19590, 19499..19591, 40384..40443, 40513..40644, 40516..40647, 40517..40648		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o5.tc	Method	TBLASTX:Cress
Start	19228	End	40666
GI	none	Score	165
Exons	19228..19350, 19240..19377, 19245..19376, 19490..19579, 19492..19578, 40384..40443, 40516..40647, 40517..40651, 40523..40666		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	19235	End	40874
GI	none	Score	118
Exons	19235..19348, 19236..19376, 19237..19377, 19490..19573, 19492..19590, 19492..19587, 40292..40381, 40326..40385, 40331..40384, 40333..40386, 40343..40444, 40384..40443, 40424..40447, 40516..40671, 40517..40654, 40727..40762, 40753..40797, 40754..40789, 40842..40874		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o4.ts	Method	TBLASTX:Soybean
Start	19240	End	40651
GI	none	Score	170
Exons	19240..19377, 19245..19376, 19252..19377, 19490..19582, 19492..19587, 40384..40443, 40416..40442, 40507..40650, 40508..40651		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o10.tm	Method	TBLASTX:Maize
Start	23260	End	23537
GI	none	Score	66
Exons	23260..23304, 23261..23305, 23374..23535, 23412..23537, 23417..23533		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o8.tm	Method	TBLASTX:Maize
Start	24073	End	24560
GI	none	Score	65
Exons	24073..24111, 24331..24558, 24332..24559, 24336..24560		



Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o4.tw	Method	TBLASTX:Wheat
Start	24383	End	25069
GI	none	Score	217
Exons	24383..24598, 24385..24600, 24387..24599, 24911..25069, 24922..25068		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o7.tm	Method	TBLASTX:Maize
Start	27222	End	27575
GI	none	Score	82
Exons	27222..27290, 27222..27293, 27223..27306, 27299..27415, 27311..27550, 27312..27575, 27333..27551		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o5.tm	Method	TBLASTX:Maize
Start	27830	End	29004
GI	none	Score	37
Exons	27830..27847, 27831..27866, 27901..27960, 27902..27964, 27903..27962, 27944..28000, 27944..28051, 27945..28031, 28010..28207, 28011..28208, 28026..28235, 28037..28273, 28805..28834, 28807..28836, 28870..28911, 28871..28912, 28966..29004		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o7.ts	Method	TBLASTX:Soybean
Start	28819	End	29016
GI	none	Score	98
Exons	28819..29016, 28832..28978		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o10.gs	Method	GENSCAN
Start	40501	End	44270
GI	none	Score	.87
Exons	40501..40652, 41320..41502, 42428..42516, 42535..44270		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o5.tw	Method	TBLASTX:Wheat
Start	42241	End	42455
GI	none	Score	137
Exons	42241..42273, 42343..42447, 42345..42449, 42345..42455, 42373..42453		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
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Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o6.np	Method	AAT/NAP
Start	42354	End	43619
GI	6646751	Score	766
Exons	42354..42549, 42670..43619		
GI Descrip.	(AC013258) unknown protein [Arabidopsis thaliana]		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	42512	End	43165
GI	none	Score	394
Exons	42512..42769, 42513..42872, 42513..42872, 42658..42879, 42872..42991, 42873..43145, 42873..43151, 42874..43152, 43082..43165		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	43023	End	43469
GI	none	Score	170
Exons	43023..43352, 43030..43341, 43344..43469, 43345..43467		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	43095	End	43469
GI	none	Score	122
Exons	43095..43340, 43096..43326, 43113..43358, 43332..43469, 43348..43452		

Seq. No.	30146	Seq. ID	OJ990619_36.9922.C5
Gene No.	62210	Strand	-
Start	40501	End	44270
Name	OJ990619_36.9922.C5.o6.ts	Method	TBLASTX:Soybean
Start	43470	End	43991
GI	none	Score	66
Exons	43470..43586, 43482..43553, 43632..43784, 43779..43868, 43938..43991		

Seq. No.	30147	Seq. ID	OJ990619_36.9922.C6
Gene No.	62211	Strand	+
Start	1	End	862
Name	OJ990619_36.9922.C6.o1.np	Method	AAT/NAP
Start	1	End	862
GI	6069646	Score	107
Exons	1..31, 718..862		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	30147	Seq. ID	OJ990619_36.9922.C6
Gene No.	62212	Strand	-
Start	2563	End	3104
Name	OJ990619_36.9922.C6.o1.gp	Method	AAT/GAP
Start	2563	End	2977
GI	1702_1.R1084	Score	548
Exons	2563..2801, 2915..2977		
GI Descrip.	'6002102/emb CAB56693.1  1.0e-29 (AJ249833) Acyl-CoA binding protein (ACBP) [Digitalis lanata]'		

Seq. No.	30147	Seq. ID	OJ990619_36.9922.C6
Gene No.	62212	Strand	-
Start	2563	End	3104
Name	OJ990619_36.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	2701	End	2981
GI	none	Score	112
Exons	2701..2802, 2702..2803, 2713..2802, 2714..2803, 2745..2807, 2910..2966, 2913..2981, 2914..2979		

Seq. No.	30147	Seq. ID	OJ990619_36.9922.C6
Gene No.	62212	Strand	-
Start	2563	End	3104
Name	OJ990619_36.9922.C6.o2.np	Method	AAT/NAP
Start	2719	End	3104
GI	6002102	Score	154
Exons	2719..2801, 2915..3104		
GI Descrip.	(AJ249833) Acyl-CoA binding protein (ACBP) [Digitalis lanata]		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62213	Strand	+
Start	7875	End	8729
Name	OJ990619_36.9922.C7.o2.np	Method	AAT/NAP
Start	7875	End	8729
GI	3115852	Score	930
Exons	7875..8729		
GI Descrip.	(AL022023) putative protein [Arabidopsis thaliana]		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62214	Strand	+
Start	10754	End	14657
Name	OJ990619_36.9922.C7.o2.gs	Method	GENSCAN
Start	10754	End	14249
GI	none	Score	.91
Exons	10754..10962, 11382..11658, 11757..11846, 11936..12019, 13443..13520, 13643..13708, 13800..13880, 14217..14249		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62214	Strand	+
Start	10754	End	14657
Name	OJ990619_36.9922.C7.o3.np	Method	AAT/NAP
Start	10754	End	14657
GI	5701799	Score	874
Exons	10754..10956, 11382..11658, 11757..11846, 11942..12019, 13443..13520, 13643..13708, 13800..13880, 14564..14657		
GI Descrip.	(AJ245408) putative syntaxin protein [Arabidopsis thaliana]		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
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Gene No. 62214 Strand +  
 Start 10754 End 14657  
 Name OJ990619\_36.9922.C7.o2.gp Method AAT/GAP  
 Start 11943 End 14635  
 GI 427659 Score 643  
 Exons 11943..12019, 13443..13520, 13643..13708, 13800..13880,  
 14564..14635  
 GI Descrip. 5701799/emb|CAB52175.1| 3.0e-29 (AJ245408) putative syntaxin  
 protein [Arabidopsis thaliana]

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62215 Strand -  
 Start 140 End 3905  
 Name OJ990619\_36.9922.C7.o1.np Method AAT/NAP  
 Start 140 End 3905  
 GI 2832632 Score 654  
 Exons 140..209, 621..716, 801..901, 987..1066, 1353..1593, 1814..1879,  
 2615..2668, 2899..2973, 3768..3905  
 GI Descrip. (AL021711) hypothetical protein [Arabidopsis thaliana]

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62216 Strand -  
 Start 7990 End 8768  
 Name OJ990619\_36.9922.C7.o4.tm Method TBLASTX:Maize  
 Start 987 End 1554  
 GI none Score 91  
 Exons 987..1028, 1156..1191, 1180..1275, 1180..1263, 1182..1274,  
 1340..1396, 1350..1397, 1351..1398, 1491..1541, 1491..1541,  
 1492..1554

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62216 Strand -  
 Start 7990 End 8768  
 Name OJ990619\_36.9922.C7.o5.tm Method TBLASTX:Maize  
 Start 3759 End 3984  
 GI none Score 161  
 Exons 3759..3917, 3760..3918, 3895..3984

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62216 Strand -  
 Start 7990 End 8768  
 Name OJ990619\_36.9922.C7.o1.ts Method TBLASTX:Soybean  
 Start 7964 End 8327  
 GI none Score 64  
 Exons 7964..8026, 7968..8027, 8010..8327, 8042..8326

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62216 Strand -  
 Start 7990 End 8768  
 Name OJ990619\_36.9922.C7.o2.tc Method TBLASTX:Cress  
 Start 7971 End 8515  
 GI none Score 61  
 Exons 7971..8024, 8037..8087, 8072..8107, 8073..8111, 8112..8318,  
 8114..8317, 8313..8363, 8423..8515

Seq. No. 30148 Seq. ID OJ990619\_36.9922.C7  
 Gene No. 62216 Strand -

Start	7990	End	8768
Name	OJ990619_36.9922.C7.o1.gp	Method	AAT/GAP
Start	7990	End	8418
GI	2798614	Score	744
Exons	7990..8418		
GI Descrip.	4581123/gb AAD24613.1 AC005825_20 8.0e-53 (AC005825) unknown protein [Arabidopsis thaliana]		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62216	Strand	-
Start	7990	End	8768
Name	OJ990619_36.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	8021	End	8305
GI	none	Score	437
Exons	8021..8305, 8022..8303		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62216	Strand	-
Start	7990	End	8768
Name	OJ990619_36.9922.C7.o3.ts	Method	TBLASTX:Soybean
Start	8400	End	8768
GI	none	Score	372
Exons	8400..8768, 8420..8728		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62216	Strand	-
Start	7990	End	8768
Name	OJ990619_36.9922.C7.o3.tc	Method	TBLASTX:Cress
Start	8516	End	8740
GI	none	Score	243
Exons	8516..8740, 8517..8738		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62217	Strand	-
Start	10754	End	14613
Name	OJ990619_36.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	10754	End	13880
GI	none	Score	80
Exons	10754..10816, 10898..10963, 11379..11576, 11380..11691, 11492..11641, 11751..11846, 11753..11875, 11933..11980, 13451..13522, 13452..13523, 13640..13708, 13640..13705, 13642..13710, 13642..13707, 13797..13880, 13799..13879		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62217	Strand	-
Start	10754	End	14613
Name	OJ990619_36.9922.C7.o2.ts	Method	TBLASTX:Soybean
Start	11385	End	13708
GI	none	Score	161
Exons	11385..11654, 11386..11691, 11388..11576, 11748..11819, 11751..11846, 11753..11851, 11753..11845, 11933..11965, 13446..13523, 13448..13522, 13452..13523, 13640..13708, 13640..13684, 13642..13704		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62217	Strand	-
Start	10754	End	14613

Name	OJ990619_36.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	11427	End	11814
GI	none	Score	105
Exons	11427..11516, 11428..11499, 11433..11507, 11445..11657, 11479..11574, 11496..11576, 11497..11658, 11498..11656, 11751..11813, 11755..11814, 11756..11812		

Seq. No.	30148	Seq. ID	OJ990619_36.9922.C7
Gene No.	62217	Strand	
Start	10754	End	14613
Name	OJ990619_36.9922.C7.o3.tm	Method	TBLASTX:Maize
Start	11822	End	14613
GI	none	Score	39
Exons	11822..11845, 11823..11846, 11933..11992, 11933..11992, 11991..12020, 13442..13522, 13443..13523, 13640..13708, 13640..13705, 13642..13710, 13642..13707, 13797..13880, 13799..13879, 14563..14613		

Seq. No.	30149	Seq. ID	OJ990619_36.9922.C8
Gene No.	62218	Strand	+
Start	385	End	526
Name	OJ990619_36.9922.C8.o1.gs	Method	GENSCAN
Start	385	End	526
GI	none	Score	.69
Exons	385..526		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62219	Strand	+
Start	1916	End	2722
Name	OJ990619_36.9922.C9.o1.gp	Method	AAT/GAP
Start	1916	End	2653
GI	48856_1.R1084	Score	1461
Exons	1916..2653		
GI Descrip.	'5815410/gb AAD52659.1 AF177392_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]'		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62219	Strand	+
Start	1916	End	2722
Name	OJ990619_36.9922.C9.o1.gs	Method	GENSCAN
Start	2261	End	2722
GI	none	Score	.54
Exons	2261..2722		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62220	Strand	+
Start	5021	End	5308
Name	OJ990619_36.9922.C9.o2.gp	Method	AAT/GAP
Start	5021	End	5308
GI	569537	Score	576
Exons	5021..5308		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62221	Strand	-
Start	2328	End	5308
Name	OJ990619_36.9922.C9.o1.tm	Method	TBLASTX:Maize

Start	2123	End	5075
GI	none	Score	39
Exons	2123..2146, 2124..2147, 2267..2302, 2268..2303, 2438..2734, 2443..2733, 4674..5075, 4692..4871, 4700..5044, 4917..5072, 4993..5073		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62221	Strand	-
Start	2328	End	5308
Name	OJ990619_36.9922.C9.o1.np	Method	AAT/NAP
Start	2328	End	5308
GI	465445	Score	49
Exons	2328..2433, 2627..2671, 5289..5308		
GI Descrip.	PROBABLE NUCLEAR ANTIGEN gi 418708 pir  B45344 probable nuclear antigen - suid herpesvirus 1 (strain Kaplan) gi 334072 (M34651) ORF-3 protein [Pseudorabies virus]		

Seq. No.	30150	Seq. ID	OJ990619_36.9922.C9
Gene No.	62221	Strand	-
Start	2328	End	5308
Name	OJ990619_36.9922.C9.o2.tm	Method	TBLASTX:Maize
Start	5076	End	5308
GI	none	Score	349
Exons	5076..5306, 5077..5307, 5077..5307, 5078..5308		

Seq. No.	30151	Seq. ID	OJ990619_36.9922.C10
Gene No.	62222	Strand	+
Start	361	End	577
Name	OJ990619_36.9922.C10.o1.tc	Method	TBLASTX:Cress
Start	359	End	522
GI	none	Score	250
Exons	359..520, 360..521, 363..521, 364..522		

Seq. No.	30151	Seq. ID	OJ990619_36.9922.C10
Gene No.	62222	Strand	+
Start	361	End	577
Name	OJ990619_36.9922.C10.o1.tm	Method	TBLASTX:Maize
Start	359	End	529
GI	none	Score	249
Exons	359..520, 360..521, 361..528, 362..529		

Seq. No.	30151	Seq. ID	OJ990619_36.9922.C10
Gene No.	62222	Strand	+
Start	361	End	577
Name	OJ990619_36.9922.C10.o1.gp	Method	AAT/GAP
Start	361	End	527
GI	325_1.R1084	Score	289
Exons	361..527		
GI Descrip.	'121343/sp P14655 GLN2_ORYSA 0.0e+00 GLUTAMINE SYNTHETASE SHOOT ISOZYME, CHLOROPLAST PRECURSOR (GLUTAMATE--AMMONIA LIGASE) (CLONE LAMBDA-GS31) >gi_68598_pir_AJRZQD glutamate--ammonia ligase (EC 6.3.1.2) delta precursor, chloroplast - rice >gi_20370_emb_CAA32462_ (X14246) precursor chloroplastic glutamine synthetase (AA -46 to 382) [Oryza sativa]'		

Seq. No.	30151	Seq. ID	OJ990619_36.9922.C10
Gene No.	62222	Strand	+

Start	361	End	577
Name	OJ990619_36.9922.C10.o1.np	Method	AAT/NAP
Start	362	End	577
GI	121343	Score	221
Exons	362..577		
GI Descrip.	GLUTAMINE SYNTHETASE SHOOT ISOZYME, CHLOROPLAST PRECURSOR (GLUTAMATE--AMMONIA LIGASE) (CLONE LAMBDA-GS31) gi 68598 pir  AJRZQD glutamate--ammonia ligase (EC 6.3.1.2) delta precursor, chloroplast - rice gi 20370 emb CAA32462  (X14246) precursor chloroplastic glutamine synthetase (AA -46 to 382) [Oryza sativa]		

Seq. No.	30151	Seq. ID	OJ990619_36.9922.C10
Gene No.	62222	Strand	+
Start	361	End	577
Name	OJ990619_36.9922.C10.o1.ts	Method	TBLASTX:Soybean
Start	378	End	529
GI	none	Score	220
Exons	378..521, 380..529, 380..517		

Seq. No.	30152	Seq. ID	OJ990619_36.9922.C11
Gene No.	62223	Strand	+
Start	342	End	566
Name	OJ990619_36.9922.C11.o1.np	Method	AAT/NAP
Start	342	End	566
GI	5902717	Score	136
Exons	342..566		
GI Descrip.	ACYL-CoA-BINDING PROTEIN (ACBP) gi 2641199 (AF031541) acyl-CoA-binding protein [Fritillaria agrestis]		

Seq. No.	30152	Seq. ID	OJ990619_36.9922.C11
Gene No.	62223	Strand	+
Start	342	End	566
Name	OJ990619_36.9922.C11.o1.gs	Method	GENSCAN
Start	354	End	471
GI	none	Score	.45
Exons	354..471		

Seq. No.	30152	Seq. ID	OJ990619_36.9922.C11
Gene No.	62224	Strand	-
Start	336	End	472
Name	OJ990619_36.9922.C11.o1.gp	Method	AAT/GAP
Start	336	End	472
GI	1702_1.R1084	Score	202
Exons	336..472		
GI Descrip.	'6002102/emb CAB56693.1  1.0e-29 (AJ249833) Acyl-CoA binding protein (ACBP) [Digitalis lanata]'		

Seq. No.	30153	Seq. ID	OJ990619_36.9922.C12
Gene No.	62225	Strand	-
Start	60	End	429
Name	OJ990619_36.9922.C12.o1.gp	Method	AAT/GAP
Start	60	End	429
GI	none	Score	496
Exons	60..190, 273..429		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
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Gene No.	62226	Strand	+
Start	3929	End	4009
Name	OJ990619_36.9922.C13.o2.gp	Method	AAT/GAP
Start	3929	End	4009
GI	38012_1.R1084	Score	105
Exons	3929..4009		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62227	Strand	+
Start	6993	End	11995
Name	OJ990619_36.9922.C13.o2.gs	Method	GENSCAN
Start	6993	End	11716
GI	none	Score	.74
Exons	6993..7187, 7291..7515, 7682..7782, 7803..7928, 8240..8319, 8472..8542, 8660..8703, 9553..9576, 10078..10222, 10307..10633, 11072..11716		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62227	Strand	+
Start	6993	End	11995
Name	OJ990619_36.9922.C13.o3.gp	Method	AAT/GAP
Start	8406	End	11995
GI	5564_1.R1084	Score	2963
Exons	8406..8542, 10078..10222, 10307..10633, 11072..11995		
GI Descrip.	'4455246/emb CAB36745.1  4.0e-85 (AL035523) putative protein [Arabidopsis thaliana]'		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62227	Strand	+
Start	6993	End	11995
Name	OJ990619_36.9922.C13.o3.np	Method	AAT/NAP
Start	10103	End	11698
GI	4455246	Score	804
Exons	10103..10222, 10301..10428, 10459..10586, 11079..11698		
GI Descrip.	(AL035523) putative protein [Arabidopsis thaliana]		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62228	Strand	+
Start	12632	End	13351
Name	OJ990619_36.9922.C13.o4.gp	Method	AAT/GAP
Start	12575	End	12835
GI	4714449	Score	507
Exons	12575..12835		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62228	Strand	+
Start	12632	End	13351
Name	OJ990619_36.9922.C13.o3.gs	Method	GENSCAN
Start	12632	End	13351
GI	none	Score	1
Exons	12632..13351		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62229	Strand	+
Start	18525	End	24853

Name	OJ990619_36.9922.C13.o5.gs	Method	GENSCAN
Start	18525	End	24853
GI	none	Score	.7
Exons	18525..18584, 18864..19006, 19121..19182, 19223..19330, 20481..20614, 20736..20894, 20977..21197, 22083..22191, 22541..22750, 22821..23015, 23078..23249, 23363..23481, 23884..24117, 24743..24853		

  

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62229	Strand	+
Start	18525	End	24853
Name	OJ990619_36.9922.C13.o6.gp	Method	AAT/GAP
Start	19095	End	21404
GI	13672_2.R1084	Score	1684
Exons	19095..19182, 19584..19704, 20481..20614, 20736..20894, 20977..21404		
GI Descrip.	'730526/sp P41127 RL13_ARATH 4.0e-83 60S RIBOSOMAL PROTEIN L13 (BBC1 PROTEIN HOMOLOG)>gi_480787_pir_S37271 ribosomal protein L13 - Arabidopsis thaliana>gi_404166_emb_CAA53005_ (X75162) BBC1 protein [Arabidopsis thaliana]'		

  

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62229	Strand	+
Start	18525	End	24853
Name	OJ990619_36.9922.C13.o4.np	Method	AAT/NAP
Start	19599	End	21198
GI	730450	Score	805
Exons	19599..19704, 20481..20614, 20736..20894, 20977..21198		
GI Descrip.	60S RIBOSOMAL PROTEIN L13-2 (COLD INDUCED PROTEIN C24B) gi 480649 pir  S37134 cold-induced protein BnC24B - rape gi 398922 emb CAA80343  (Z22620) cold induced protein (BnC24B) [Brassica napus]		

  

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62229	Strand	+
Start	18525	End	24853
Name	OJ990619_36.9922.C13.o7.gp	Method	AAT/GAP
Start	21984	End	22736
GI	none	Score	730
Exons	21984..22191, 22541..22736		

  

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62229	Strand	+
Start	18525	End	24853
Name	OJ990619_36.9922.C13.o5.np	Method	AAT/NAP
Start	22718	End	23970
GI	134642	Score	432
Exons	22718..22750, 22821..23015, 23078..23258, 23417..23481, 23657..23683, 23776..23799, 23884..23970		
GI Descrip.	SUPEROXIDE DISMUTASE [FE], CHLOROPLAST gi 170235 (M55909) Fe-superoxide dismutase [Nicotiana plumbaginifolia]		

  

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62230	Strand	-
Start	1	End	4057
Name	OJ990619_36.9922.C13.o1.np	Method	AAT/NAP
Start	1	End	907

GI 4455158 Score 497  
 Exons 1..203, 292..381, 470..538, 821..907  
 GI Descrip. (AL021687) kinase-like protein [Arabidopsis thaliana]

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62230 Strand -  
 Start 1 End 4057  
 Name OJ990619\_36.9922.C13.o1.gs Method GENSCAN  
 Start 65 End 4057  
 GI none Score .64  
 Exons 65..203, 821..899, 1834..1954, 2576..2658, 2929..3007,  
 4039..4057

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62230 Strand -  
 Start 1 End 4057  
 Name OJ990619\_36.9922.C13.o1.gp Method AAT/GAP  
 Start 1132 End 3078  
 GI none Score 1406  
 Exons 1132..1207, 1334..1464, 1547..1954, 2929..3078

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62231 Strand -  
 Start 13209 End 13557  
 Name OJ990619\_36.9922.C13.o5.gp Method AAT/GAP  
 Start 13209 End 13557  
 GI 4714482 Score 655  
 Exons 13209..13557

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62232 Strand -  
 Start 13987 End 18071  
 Name OJ990619\_36.9922.C13.o4.gs Method GENSCAN  
 Start 13987 End 18071  
 GI none Score .8  
 Exons 13987..14107, 14209..14337, 14513..14558, 14760..14805,  
 14886..14932, 15081..15733, 15982..16248, 16689..16735,  
 17030..17088, 17984..18071

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62233 Strand -  
 Start 24049 End 24314  
 Name OJ990619\_36.9922.C13.o1.tw Method TBLASTX:Wheat  
 Start 65 End 517  
 GI none Score 167  
 Exons 65..202, 66..203, 66..203, 67..204, 67..210, 278..382, 278..373,  
 286..384, 292..384, 464..517, 474..515, 475..516

Seq. No. 30154 Seq. ID OJ990619\_36.9922.C13  
 Gene No. 62233 Strand -  
 Start 24049 End 24314  
 Name OJ990619\_36.9922.C13.o3.tc Method TBLASTX:Cress  
 Start 66 End 902  
 GI none Score 65  
 Exons 66..197, 67..198, 292..384, 464..536, 474..539, 818..901,  
 819..902

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o3.ts	Method	TBLASTX:Soybean
Start	66	End	545
GI	none	Score	121
Exons	66..203, 66..203, 67..204, 73..204, 284..382, 292..384, 464..541, 474..542, 492..545		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o5.tm	Method	TBLASTX:Maize
Start	66	End	539
GI	none	Score	121
Exons	66..197, 66..203, 67..204, 73..210, 278..385, 286..384, 464..538, 471..539		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o4.tm	Method	TBLASTX:Maize
Start	854	End	2986
GI	none	Score	77
Exons	854..901, 855..902, 1575..1712, 1576..1713, 1579..1713, 1583..1714, 1698..1754, 1707..1946, 1709..1957, 1711..1956, 2909..2986		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o2.tm	Method	TBLASTX:Maize
Start	10079	End	11554
GI	none	Score	98
Exons	10079..10207, 10150..10206, 10301..10402, 10306..10410, 10311..10412, 10312..10413, 10454..10516, 10464..10520, 10477..10527, 10498..10521, 11084..11233, 11098..11232, 11100..11246, 11107..11247, 11266..11517, 11267..11554, 11273..11554		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o1.tc	Method	TBLASTX:Cress
Start	10130	End	11557
GI	none	Score	77
Exons	10130..10207, 10156..10206, 10301..10405, 10312..10404, 10436..10516, 10463..10543, 11072..11557, 11080..11517, 11096..11551		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o5.tw	Method	TBLASTX:Wheat
Start	10148	End	10402
GI	none	Score	72
Exons	10148..10207, 10150..10197, 10306..10401, 10307..10402		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o6.ts	Method	TBLASTX:Soybean
Start	10150	End	11158
GI	none	Score	81
Exons	10150..10212, 10154..10213, 10460..10516, 11093..11158		10309..10410, 10310..10459,

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o4.tw	Method	TBLASTX:Wheat
Start	10454	End	11305
GI	none	Score	59
Exons	10454..10513, 11069..11305, 11098..11304		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o2.ts	Method	TBLASTX:Soybean
Start	11159	End	11557
GI	none	Score	100
Exons	11159..11287, 11162..11278, 11291..11557, 11294..11557		11173..11280, 11290..11517,

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o5.ts	Method	TBLASTX:Soybean
Start	12629	End	12838
GI	none	Score	103
Exons	12629..12697, 12706..12774, 12707..12838		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o6.tm	Method	TBLASTX:Maize
Start	12629	End	12922
GI	none	Score	114
Exons	12629..12700, 12688..12774, 12890..12922		12692..12838, 12792..12836,

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o5.tc	Method	TBLASTX:Cress
Start	12638	End	12838
GI	none	Score	70
Exons	12638..12694, 12707..12838		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o7.tm	Method	TBLASTX:Maize
Start	14218	End	15350

GI	none	Score	142
Exons	14218..14361, 14223..14339, 14512..14562, 14513..14563, 15088..15342, 15113..15343, 15117..15350		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o2.tw	Method	TBLASTX:Wheat
Start	14886	End	15446
GI	none	Score	312
Exons	14886..14933, 14887..14934, 15082..15114, 15088..15441, 15113..15442, 15231..15446		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o3.tm	Method	TBLASTX:Maize
Start	15393	End	16030
GI	none	Score	267
Exons	15393..15629, 15393..15518, 15394..15642, 15394..15639, 15631..15786, 15640..15735, 15710..15781, 15813..15884, 15830..15898, 15831..15884, 15975..16028, 15982..16029, 15983..16030		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o8.tm	Method	TBLASTX:Maize
Start	16981	End	17181
GI	none	Score	89
Exons	16981..17049, 16981..17163, 17006..17176, 17108..17164, 17113..17181		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o2.tc	Method	TBLASTX:Cress
Start	19547	End	21168
GI	none	Score	197
Exons	19547..19693, 19599..19709, 20479..20610, 20480..20614, 20483..20614, 20733..20912, 20735..20869, 20974..21048, 20976..21047, 21052..21168		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	19592	End	21168
GI	none	Score	179
Exons	19592..19702, 19594..19704, 19595..19705, 19596..19709, 19596..19706, 20480..20614, 20485..20616, 20488..20613, 20733..20912, 20735..20869, 20974..21168, 20976..21158		
Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o1.ts	Method	TBLASTX:Soybean

Start	19592	End	21168
GI	none	Score	71
Exons	19592..19678, 19595..19699, 19596..19709, 20480..20614, 20485..20625, 20488..20610, 20490..20627, 20733..20912, 20735..20863, 20974..21048, 20976..21041, 21051..21155, 21052..21168		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o3.tw	Method	TBLASTX:Wheat
Start	19617	End	20894
GI	none	Score	116
Exons	19617..19727, 19626..19712, 19629..19727, 20458..20613, 20477..20614, 20512..20616, 20733..20894, 20735..20860		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o4.tc	Method	TBLASTX:Cress
Start	22820	End	23964
GI	none	Score	128
Exons	22820..22954, 22821..22988, 23080..23139, 23080..23244, 23081..23245, 23206..23250, 23657..23683, 23773..23805, 23872..23964		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o4.ts	Method	TBLASTX:Soybean
Start	22821	End	23964
GI	none	Score	125
Exons	22821..22988, 22826..22987, 23075..23242, 23076..23153, 23078..23245, 23080..23253, 23197..23253, 23364..23474, 23398..23475, 23657..23683, 23773..23805, 23872..23964		

Seq. No.	30154	Seq. ID	OJ990619_36.9922.C13
Gene No.	62233	Strand	-
Start	24049	End	24314
Name	OJ990619_36.9922.C13.o8.gp	Method	AAT/GAP
Start	24049	End	24314
GI	6025016	Score	453
Exons	24049..24314		

Seq. No.	30155	Seq. ID	OJ990619_36.9922.C14
Gene No.	62234	Strand	+
Start	1	End	1715
Name	OJ990619_36.9922.C14.o1.gp	Method	AAT/GAP
Start	1	End	1715
GI	1601_1.R1084	Score	1335
Exons	1..98, 245..349, 523..615, 693..785, 1238..1361, 1463..1715		
GI Descrip.	'2493650/sp Q43831 RUBB_SECCE 0.0e+00 RUBISCO SUBUNIT BINDING-PROTEIN BETA SUBUNIT (60 KD CHAPERONIN BETA SUBUNIT) (CPN-60 BETA) >gi_1167858_emb_CAA93139_(Z68903) chaperonin [Secale cereale]'		

Seq. No.	30155	Seq. ID	OJ990619_36.9922.C14
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Gene No. 62234 Strand +  
 Start 1 End 1715  
 Name OJ990619\_36.9922.C14.o1.np Method AAT/NAP  
 Start 1 End 1372  
 GI 2493650 Score 645  
 Exons 1..98, 245..349, 523..615, 693..785, 1238..1372  
 GI Descrip. RUBISCO SUBUNIT BINDING-PROTEIN BETA SUBUNIT (60 KD CHAPERONIN  
 BETA SUBUNIT) (CPN-60 BETA) gi|1167858|emb|CAA93139| (Z68903)  
 chaperonin [Secale cereale]

Seq. No. 30155 Seq. ID OJ990619\_36.9922.C14  
 Gene No. 62234 Strand +  
 Start 1 End 1715  
 Name OJ990619\_36.9922.C14.o1.gs Method GENSCAN  
 Start 245 End 1476  
 GI none Score .89  
 Exons 245..349, 523..615, 693..785, 1238..1361, 1463..1476

Seq. No. 30155 Seq. ID OJ990619\_36.9922.C14  
 Gene No. 62235 Strand -  
 Start 1688 End 4875  
 Name OJ990619\_36.9922.C14.o1.tc Method TBLASTX:Cress  
 Start 25 End 4833  
 GI none Score 61  
 Exons 25..81, 26..94, 27..104, 281..352, 522..617, 522..617, 523..624,  
 689..787, 690..788, 692..817, 1226..1372, 1237..1374,  
 1237..1371, 4762..4833

Seq. No. 30155 Seq. ID OJ990619\_36.9922.C14  
 Gene No. 62235 Strand -  
 Start 1688 End 4875  
 Name OJ990619\_36.9922.C14.o1.ts Method TBLASTX:Soybean  
 Start 26 End 4859  
 GI none Score 116  
 Exons 26..94, 27..104, 281..352, 522..623, 523..624, 523..627,  
 689..787, 690..788, 1226..1363, 1237..1389, 1237..1362,  
 4104..4184, 4758..4859, 4762..4842

Seq. No. 30155 Seq. ID OJ990619\_36.9922.C14  
 Gene No. 62235 Strand -  
 Start 1688 End 4875  
 Name OJ990619\_36.9922.C14.o2.tm Method TBLASTX:Maize  
 Start 26 End 4875  
 GI none Score 109  
 Exons 26..100, 26..97, 27..104, 1226..1372, 1235..1291, 1236..1298,  
 1237..1380, 1237..1374, 1461..1481, 3968..3994, 4000..4050,  
 4104..4178, 4476..4547, 4756..4833, 4758..4856, 4762..4848,  
 4841..4867, 4843..4875

Seq. No. 30155 Seq. ID OJ990619\_36.9922.C14  
 Gene No. 62235 Strand -  
 Start 1688 End 4875  
 Name OJ990619\_36.9922.C14.o1.tm Method TBLASTX:Maize  
 Start 284 End 791  
 GI none Score 101  
 Exons 284..352, 522..617, 522..617, 523..624, 689..790, 690..791



Seq. No.	30155	Seq. ID	OJ990619_36.9922.C14
Gene No.	62235	Strand	-
Start	1688	End	4875
Name	OJ990619_36.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	525	End	1386
GI	none	Score	139
Exons	525..617, 526..624, 538..624, 687..785, 689..787, 690..788, 1226..1363, 1235..1297, 1237..1386, 1237..1374		

Seq. No.	30155	Seq. ID	OJ990619_36.9922.C14
Gene No.	62235	Strand	-
Start	1688	End	4875
Name	OJ990619_36.9922.C14.o2.gs	Method	GENSCAN
Start	1688	End	3244
GI	none	Score	.93
Exons	1688..1887, 2716..2815, 3179..3244		

Seq. No.	30156	Seq. ID	OJ990619_31.9922.C2
Gene No.	62236	Strand	-
Start	262	End	532
Name	OJ990619_31.9922.C2.o1.ts	Method	TBLASTX:Soybean
Start	262	End	532
GI	none	Score	82
Exons	262..531, 280..468, 338..532		

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62237	Strand	+
Start	1884	End	3004
Name	OJ990619_31.9922.C3.o2.gs	Method	GENSCAN
Start	1884	End	3003
GI	none	Score	.65
Exons	1884..1966, 2081..2246, 2498..3003		

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62237	Strand	+
Start	1884	End	3004
Name	OJ990619_31.9922.C3.o2.gp	Method	AAT/GAP
Start	2368	End	3004
GI	4880964	Score	1036
Exons	2368..2408, 2498..3004		

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62238	Strand	-
Start	426	End	1623
Name	OJ990619_31.9922.C3.o1.gs	Method	GENSCAN
Start	426	End	1503
GI	none	Score	.96
Exons	426..614, 934..1503		

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62238	Strand	-
Start	426	End	1623
Name	OJ990619_31.9922.C3.o1.gp	Method	AAT/GAP
Start	1152	End	1623
GI	44522_1.R1084	Score	940
Exons	1152..1623		

GI Descrip. '5815410/gb|AAD52659.1|AF177392\_1 0.0e+00 (AF177392) blast and

wounding induced mitogen-activated protein kinase [Oryza sativa]'

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62239	Strand	
Start	1838	End	3004
Name	OJ990619_31.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	1838	End	3004
GI	none	Score	88
Exons	1838..1903, 1875..1931, 1884..1922, 1973..2053, 1989..2054, 2169..2207, 2211..2246, 2335..2433, 2345..2434, 2491..2538, 2492..2569, 2495..2539, 2533..3003, 2534..3004		

Seq. No.	30157	Seq. ID	OJ990619_31.9922.C3
Gene No.	62239	Strand	
Start	1838	End	3004
Name	OJ990619_31.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	1851	End	2538
GI	none	Score	98
Exons	1851..1931, 1881..1922, 1958..2050, 1995..2051, 2169..2246, 2188..2247, 2357..2416, 2361..2405, 2362..2433, 2496..2537, 2496..2537, 2497..2538		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62240	Strand	+
Start	746	End	1089
Name	OJ990619_31.9922.C4.o2.gs	Method	GENSCAN
Start	746	End	1089
GI	none	Score	.99
Exons	746..895, 940..1089		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62241	Strand	+
Start	2323	End	2634
Name	OJ990619_31.9922.C4.o3.gs	Method	GENSCAN
Start	2323	End	2634
GI	none	Score	1
Exons	2323..2634		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o1.gp	Method	AAT/GAP
Start	3458	End	4980
GI	6689925	Score	1657
Exons	3458..3872, 4040..4280, 4407..4508, 4752..4825, 4916..4980		
GI Descrip.	5815410/gb AAD52659.1 AF177392_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o4.gs	Method	GENSCAN
Start	3799	End	4804
GI	none	Score	.57
Exons	3799..3873, 4040..4337, 4407..4508, 4752..4804		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	4038	End	4980
GI	none	Score	49
Exons	4038..4088, 4073..4300, 4080..4220, 4085..4276, 4406..4510, 4407..4511, 4407..4511, 4752..4826, 4754..4831, 4898..4978, 4904..4978, 4917..4979, 4921..4980		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o1.np	Method	AAT/NAP
Start	4110	End	4980
GI	6689926	Score	594
Exons	4110..4280, 4407..4508, 4752..4825, 4916..4980		
GI Descrip.	(AF194416) MAP kinase homolog [Oryza sativa]		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	4406	End	4979
GI	none	Score	65
Exons	4406..4453, 4454..4510, 4736..4828, 4754..4831, 4904..4978, 4917..4979		

Seq. No.	30158	Seq. ID	OJ990619_31.9922.C4
Gene No.	62242	Strand	-
Start	3799	End	4980
Name	OJ990619_31.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	4406	End	4980
GI	none	Score	46
Exons	4406..4438, 4407..4439, 4436..4510, 4444..4509, 4445..4510, 4753..4836, 4754..4834, 4754..4870, 4913..4978, 4913..4978, 4914..4979, 4915..4980		

Seq. No.	30159	Seq. ID	OJ990619_31.9922.C5
Gene No.	62243	Strand	-
Start	1	End	201
Name	OJ990619_31.9922.C5.o1.gp	Method	AAT/GAP
Start	1	End	201
GI	6689925	Score	304
Exons	1..201		
GI Descrip.	5815410/gb AAD52659.1 AF177392_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]		

Seq. No.	30159	Seq. ID	OJ990619_31.9922.C5
Gene No.	62243	Strand	-
Start	1	End	201
Name	OJ990619_31.9922.C5.o1.np	Method	AAT/NAP
Start	1	End	201
GI	6689926	Score	253
Exons	1..201		
GI Descrip.	(AF194416) MAP kinase homolog [Oryza sativa]		

Seq. No. 30159  
 Gene No. 62243  
 Start 1  
 Name OJ990619\_31.9922.C5.o1.gs  
 Start 42  
 GI none  
 Exons 42..161

Seq. ID OJ990619\_31.9922.C5  
 Strand -  
 End 201  
 Method GENSCAN  
 End 161  
 Score .48

Seq. No. 30160  
 Gene No. 62244  
 Start 1  
 Name OJ990619\_31.9922.C6.o1.gp  
 Start 1  
 GI none  
 Exons 1..91

Seq. ID OJ990619\_31.9922.C6  
 Strand -  
 End 91  
 Method AAT/GAP  
 End 91  
 Score 144

Seq. No. 30160  
 Gene No. 62245  
 Start 586  
 Name OJ990619\_31.9922.C6.o1.gs  
 Start 586  
 GI none  
 Exons 586..665

Seq. ID OJ990619\_31.9922.C6  
 Strand -  
 End 665  
 Method GENSCAN  
 End 665  
 Score .92

Seq. No. 30161  
 Gene No. 62246  
 Start 44  
 Name OJ990619\_31.9922.C7.o1.gs  
 Start 44  
 GI none  
 Exons 44..112, 336..518

Seq. ID OJ990619\_31.9922.C7  
 Strand +  
 End 518  
 Method GENSCAN  
 End 518  
 Score .84

Seq. No. 30161  
 Gene No. 62247  
 Start 829  
 Name OJ990619\_31.9922.C7.o2.gs  
 Start 829  
 GI none  
 Exons 829..1884

Seq. ID OJ990619\_31.9922.C7  
 Strand +  
 End 1884  
 Method GENSCAN  
 End 1884  
 Score 1

Seq. No. 30161  
 Gene No. 62248  
 Start 6387  
 Name OJ990619\_31.9922.C7.o1.np  
 Start 6387  
 GI 6063554  
 Exons 6387..6589, 6890..6970, 7116..7232, 8702..8731, 9366..9539  
 GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ990619\_31.9922.C7  
 Strand +  
 End 19016  
 Method AAT/NAP  
 End 9539  
 Score 341

Seq. No. 30161  
 Gene No. 62248  
 Start 6387  
 Name OJ990619\_31.9922.C7.o4.gs  
 Start 9165  
 GI none

Seq. ID OJ990619\_31.9922.C7  
 Strand +  
 End 19016  
 Method GENSCAN  
 End 19016  
 Score .68

Exons 9165..9252, 9934..10052, 11560..11685, 12028..12154,  
12692..12774, 14505..14522, 16334..16352, 16448..17774,  
18032..19016

Seq. No.	30161	Seq. ID	OJ990619_31.9922.C7
Gene No.	62249	Strand	-
Start	1163	End	2062
Name	OJ990619_31.9922.C7.o1.gp	Method	AAT/GAP
Start	1163	End	2062
GI	none	Score	1728
Exons	1163..2062		

Seq. No.	30161	Seq. ID	OJ990619_31.9922.C7
Gene No.	62250	Strand	-
Start	9929	End	10224
Name	OJ990619_31.9922.C7.o2.gp	Method	AAT/GAP
Start	9929	End	10224
GI	61605_3.R1084	Score	423
Exons	9929..10224		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62251	Strand	+
Start	2701	End	5165
Name	OJ990619_31.9922.C8.o1.np	Method	AAT/NAP
Start	2701	End	5165
GI	5001454	Score	98
Exons	2701..2733, 4671..4888, 4952..5165		
GI Descrip.	(AC007730) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62252	Strand	+
Start	7706	End	9452
Name	OJ990619_31.9922.C8.o2.np	Method	AAT/NAP
Start	7706	End	9452
GI	6907087	Score	879
Exons	7706..8076, 8122..8828, 9351..9452		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62253	Strand	+
Start	12296	End	16032
Name	OJ990619_31.9922.C8.o4.np	Method	AAT/NAP
Start	12296	End	16032
GI	6633813	Score	693
Exons	12296..12318, 13626..14145, 14301..14727, 14764..15192, 15376..15884, 15930..16032		
GI Descrip.	(AC009519) F1N19.10 [Arabidopsis thaliana]		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62253	Strand	+
Start	12296	End	16032
Name	OJ990619_31.9922.C8.o2.gs	Method	GENSCAN

Start	13400	End	16016
GI	none	Score	.83
Exons	13400..13466, 13571..14106, 14325..15192, 15376..16016		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62254	Strand	-
Start	9842	End	14690
Name	OJ990619_31.9922.C8.o3.np	Method	AAT/NAP
Start	9842	End	14690
GI	4680186	Score	200
Exons	9842..10044, 11052..11271, 14667..14690		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62255	Strand	-
Start	16948	End	19933
Name	OJ990619_31.9922.C8.o3.gs	Method	GENSCAN
Start	16948	End	19933
GI	none	Score	.78
Exons	16948..16957, 16980..17092, 17207..17295, 17367..17472, 17832..17924, 18549..18638, 19329..19542, 19895..19933		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62255	Strand	-
Start	16948	End	19933
Name	OJ990619_31.9922.C8.o1.gp	Method	AAT/GAP
Start	17185	End	17858
GI	none	Score	395
Exons	17185..17295, 17367..17472, 17832..17858		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62256	Strand	-
Start	19889	End	20325
Name	OJ990619_31.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	13630	End	14009
GI	none	Score	40
Exons	13630..13671, 13699..13842, 13864..14004, 13896..14009		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62256	Strand	-
Start	19889	End	20325
Name	OJ990619_31.9922.C8.o2.tm	Method	TBLASTX:Maize
Start	13633	End	14052
GI	none	Score	38
Exons	13633..13674, 13699..13857, 13701..13820, 13852..14052, 13896..14012		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
Gene No.	62256	Strand	-
Start	19889	End	20325
Name	OJ990619_31.9922.C8.o1.tc	Method	TBLASTX:Cress
Start	13699	End	14118
GI	none	Score	122
Exons	13699..13842, 13707..13820, 13858..14007, 13896..14006, 14026..14118		

Seq. No.	30162	Seq. ID	OJ990619_31.9922.C8
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